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VOLUME XII
WESTERN STUDY AREA, SECTION 2.0
VERSION 3.2

May 1989 Contract No. DAAA15-88-D-0024

EBASCO SERVICES INCORPORATED

Applied Environmental, Inc. CH2M HILL DataChem, Inc. R.L. Stollar & Associates, Inc.

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ROCKY MOUNTAIN ARSENAL

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Prepared by:

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Rocky Mountain Arsenal Information Center Commerce City, Colorado

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Standard Abbreviations Used in Western Study Area Report

```
1. Analyte Groups
     VHO -
                  Volatile halogenated organic compounds
     VHC -
                  Volatile hydrocarbon compounds
                  Volatile aromatic organic compounds
     VAO -
     OSCM -
                  Organosulfur compounds - mustard-agent related
     OSCH -
                  Organosulfur compounds - herbicide related
     OPHGB -
                  Organophosphorous compounds, GB-agent related
     OPHP -
                  Organophosphorous compounds, pesticide related
     DBCP -
                  Dibromochloropropane
     ONC -
                  Organonitrogen compounds
     PAH -
                  Polynuclear aromatic hydrocarbons
     SHO -
                  Semivolatile halogenated organic compounds
     OCP -
                  Organochlorine pesticides
     ICP METALS - Metals analyzed for by inductively coupled argon plasma,
                  includes cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb),
                  and zinc (Zn)
    As -
                  Arsenic
    Hg -
                  Mercury
2. National Acts & Organizations
    AMCCOM -
                  Armament, Munitions, and Chemical Command
                  Comprehensive Environmental Response, Compensation, and
    CERCLA -
                  Liability Act
    CWS -
                  Chemical Warfare Service
    NCP -
                 National Contingency Plan
    NOAA -
                 National Oceanic and Atmospheric Administration
    SARA -
                 Superfund Amendments and Reauthorization Act
    USACOE
                 United States Army Corps of Engineers
    USAEHA -
                 United States Army Environmental Hygiene Agency
    USAEWES -
                 United States Army Engineer Waterways Experiment Station
    USATHAMA -
                 United States Army Toxic and Hazardous Materials Agency
    USDA-SCS
                 United States Department of Agriculture - Soil Conservation
                 Service
    USEPA
                 U.S. Environmental Protection Agency
    USFWS -
                 United States Fish and Wildlife Service
3. Local Terminology
    CAR -
                 Contamination Assessment Report
   CDH -
                 Colorado Department of Health
   CDOW -
                 Colorado Division of Wildlife
   EA -
                 Endangerment Assessment
   FIT -
                 Field Investigation Team
   FS -
                 Feasibility Study
   ICS
                 Irondale Containment System
   IRDMS -
                 Installation Restoration Data Management System
   NCSA -
                North Central Study Area
   PMCDIR -
                Program Manager for Chemical Demilitarization Installation
                Restoration
```

```
PMO or PMRMA-Program Managers Office for the RMA Contamination Cleanup
    RAA -
                  Remedial Action Alternative
     RI -
                  Remedial Investigation
    RIC -
                  Resource Information Center
    RMA -
                  Rocky Mountain Arsenal
    RMACCPMT -
                  Rocky Mountain Arsenal Contamination Cleanup Program Managers
                  Team
    RSS -
                  Repair/Salvage/Surplus
                  South Adams County Water and Sanitation District
    SACWSD -
    SAPAO -
                  Stapleton Airport Public Affairs Office
    SAR -
                  Study Area Report
    SCS -
                  Soil Conservation Service
    SPSA -
                  South Plants Study Area
    TPP -
                  Technical Program Plan
    TSP -
                  Total Suspended Particulates
    WSA -
                  Western Study Area
4. Companies
    CAPS -
                  Colorado Air Photo Service
    CDM -
                  Camp, Dresser & McKee, Inc.
    EBASCO -
                  Ebasco Services Incorporated
    E&E -
                  Ecology and Environment
    ESE -
                  Hunter/Environmental Science & Engineering, Inc.
    G&M -
                  Geraghty & Miller, Inc.
    MKE -
                 Morrison-Knudsen Engineers, Inc.
    PBEC -
                 Prouty Bros. Engineering Co.
    TRC -
                 Tracer Research Corp.
5. Unified Soil Classification System (USCS) Textural Key
                 inorganic clay (high plasticity)
    CH
    CL -
                 inorganic clay, low plasticity
    GC -
                 clayey gravel
    GP -
                 poorly graded gravel
    MH
                 inorganic silt with very fine sand
    ML -
                 inorganic silt, low plasticity
    SC -
                 clayey sand
    SM -
                 silty sand
    SP -
                 poorly graded sand
    SW -
                 well graded sand
6. Measurements
                 fibers per cubic centimeter
    f/cc -
    gpm -
                 gallons per minute
    mph -
                 miles per hour
    ms1 -
                 mean sean level
                 micrograms per gram, equivalent to parts per million (ppm)
    ug/g -
   ug/1 -
                 micrograms per liter, nearly equivalent to parts per billion
   ug/m<sup>3</sup>
                 micrograms per cubic meter
```

AA -	atomic adsorption
CVAA -	cold vapor atomic adsorption
Eh -	oxidation potential
GC/EC -	gas chromatography/electron capture
GC/MS -	gas chromatography/mass spectrometry
Kd -	soil - water coefficient
Kh -	Henry's law constant
Koc -	organic carbon partition coefficient
Kow -	Octanol - water partition coefficient

2.0 CONTAMINANT DISTRIBUTION

The distribution of potential contaminants in and near the WSA, both on- and off-post, is discussed in this section. On-post discussions address soils and sediments, surface water, groundwater, soil gas, structures, air, and biota. Off-post discussions include soils and sediments, groundwater, and soil gas. This section summarizes numerous other reports and data that are listed in Section 1.1 and that are referenced in the appropriate parts of Section 2.0. If more specific information is needed, full details of all analytical data can be found in the companion reports. An interpretive assessment of the contamination is presented in Section 3.0, Contamination Assessment.

For designated sites studied during the RI, much of the soils analytical data was presented on a site-by-site basis in the Phase I Contamination Assessment Reports (CARs). Results of each site's Phase II investigation are presented in a data addendum for that CAR. The CARs and data addenda used for the compilation of this report are summarized in Table WSA 1.2-1.

The discussion of contaminant distribution is organized by compound groups. Potential contaminants have been grouped into volatile halogenated organics (VHOs), volatile hydrocarbons (VHCs), volatile aromatic organics (VAOs), organosulfur compounds mustard-agent related (OSCMs), organosulfur compounds herbicide related (OSCHs), organophosphorous compounds GB-agent related (OPHGBs), dibromochloropropane (DBCP), polynuclear aromatic hydrocarbons (PAHs), semivolatile halogenated organics (SHOs), organochlorine pesticides (OCPs), arsenic, mercury, and ICP metals (cadmium, copper, chromium, lead, and zinc) (see Appendix WSA-B for a list of compounds in each group). These compound groupings reflect the Phase II analytical methods for related families of compounds as well as similar origins and environmental properties (Appendix WSA-B).

Data from other investigations, when available, are also considered in this section. Very little soils analytical data were collected prior to the Phase I study in the WSA, but data were collected from the railyard where a DBCP spill had occurred and from south of the east landfill (WSA-3). A soil sample collected in 1981 from the railyard contained DBCP at a depth of 2 to

4 ft (Shepherd, 1981), and surface and subsurface soil samples collected in 1982 from the railyard were reported to contain DBCP at depths up to 95 ft (Geraghty & Miller, 1982/RIC 81342RO6). Groundwater data from Shell Chemical Company (RIC, 1988) and the USEPA (CDM, 1988; E&E, 1986a, b) have been included. In 1986, polychlorinated biphenyls were reported in a soil investigation conducted by the U.S. Army Environmental Hygiene Agency (USAEHA, 1986a). Polychlorinated biphenyls were detected in two surface soil samples southeast of the east land?ill (WSA-3). This background information will be used in association with the analytical results from the RI program to assess potential impacts by sources of potential contamination outside the WSA.

Illustrations in this section present the distribution of contaminants in the different media. Boring and well locations on these plates were plotted by computer onto a grid system defined by State Planar Coordinates. These locations were then projected onto a study area base map generated from a U.S. Geological Survey 7.5 minute topographic map photorevised in 1980 (USGS, 1965a, b). The contaminant distribution maps are presented in conjunction with the contaminant distribution discussions in following sections of this report. Separate maps have been prepared for the VHOs, methylene chloride, VHCs, VAOs, DBCP, OCPs, arsenic, mercury, and ICP metals in soils. Separate maps have also been prepared for VHOs, VAOs, OCPs, and DBCP in groundwater.

The distribution of each group of analytes is presented separately for soils (vadose zone) and groundwater. Air, structures, and biota data are shown separately.

2.1 SOIL AND SEDIMENT SAMPLES

In Phase I of the RI, 295 borings were drilled, yielding 161 composite and 631 uncomposited soil boring samples. An additional 8 sediment grab samples and 1 soil grab sample were taken. In Phase II, an additional 82 borings were drilled, and 280 soil samples were collected. A list of the compounds detected during these investigations and their respective certified reporting limits (CRLs) is presented in Table WSA 2.1-1.

In addition to target compounds, the Phase I and Phase II analyses for organic compounds using GC/MS methods tentatively identified other organics. The Chemical Index (Ebasco, 1988v) lists which of these compounds are of concern, and these compounds have been added to the list of target compounds presented in this report.

During Phase II exploration, electromagnetic and magnetic geophysical survey methods were used at the north, east, and west landfill (WSA-5, WSA-3, and WSA-2) to identify areas of buried debris. In the west landfill (WSA-2), major magnetic anomalies were northwest-southeast trending linear features, due to disposal of ferrous metal in trenches. Minor magnetic anomalies were associated with buried or partially buried drums. Drums were partially excavated in this site, but were not removed during the RI. Electromagnetic readings corresponding to the suspected trenches were noted, along with individual readings corresponding to individual buried metal containers.

The east landfill (WSA-3) showed magnetic and electromagnetic readings associated with surface and near-surface debris. The major magnetic anomalies in the north landfill (WSA-5) were east-west trending linear features, due to disposal of ferrous metal in pits. Minor magnetic anomalies and electromagnetic readings were associated with structures unrelated to disposal activities. Further information on the geophysical surveys may be found in the Phase II Addenda to the individual CARs.

2.1.1 Sampling Program and Analytical Methods

The soils investigation at RMA was conducted in two phases. Phase I investigations identified potential contaminants and provided a preliminary assessment of the vertical and lateral extent of contaminants. Phase I results also provided the basis for the design of a more quantitative Phase II program. Phase II sampling was conducted at some sites to provide a more quantitative assessment of the vertical and areal extent of detected potential contamination. Data from Phase I of the RI were published in the Contamination Assessment Report for each site, and Phase II data were published in Phase II Data Addenda. These documents are listed and referenced in Section 1.1 of this report.

In the Phase I program, soil borings were drilled to various depths in the vadose zone. Within sites, samples were generally collected from these borings at standard sampling depths of 0 to 1, 4 to 5, 9 to 10, 14 to 15, and 19 to 20 ft, and at 10 ft intervals below 20 ft. Samples were collected from nonstandard intervals where drilling was difficult or where staining or other evidence of potential contamination was observed in the core. In areas outside sites, samples were normally composites of the 0 to 1 and 4 to 5 ft intervals. Phase II samples were collected either at standard intervals or in depth intervals clustered around Phase I samples that were re-evaluated by the Phase II samples.

Samples from the Phase I borings were analyzed for a stand, d suite of analyses. The Phase I analyses for target compounds included:

- o gas chromatography/mass spectrometry (GC/MS) analysis for volatile organics (VOs);
- o GC/MS for semivolatile organics (SVOs);
 gas chromatography/electron capture (GC/EC) analysis for DBCP;
- o inductively coupled plasma (ICP) screen for the metals cadmium, chromium, copper, lead, and zinc;
- o atomic absorption spectroscopy (AA) for arsenic; and
- o cold vapor atomic absorption spectrocopy (CVAA) for mercury.

The organic compounds for which the VO and SVO methods were certified are listed in Appendix WSA-A. Some samples were also analyzed by high-performance liquid chromatography (HPLC) for thiodyglycol and agent degradation products.

In the WSA sites, the GC/MS analysis for VOs was applied only to samples from below the O to 1 ft depth interval, since volatiles could be expected to have evaporated from surface soils. VOs were normally not analyzed in samples collected outside of the WSA sites, as the sample from these other areas were composites of the O to 1 and 4 to 5 ft intervals. For other methods applied to these composite samples, under worst-case conditions, compositiong effectively doubled the CRLs for these samples.

Where GC/MS methods were used, nontarget compounds were tentatively identified by establishing a "best fit" identification using a computer library of spectra. Some of these compounds have been added to the list of target compounds that are evaluated by the SARs (Ebasco 1988v/RIC 88357R01). These tentatively identified compounds are:

VHOs

1,1,2,2-tetrachlorethane trichloropropene

VHCs

2-butoxyethanol
4-hydroxy-4-methyl-2-pentanone
1-methyl-1,3-cyclopentadiene
methylcyclohexane
2,2-oxybisethanol
2-pentanone

OPHGBs

phosphoric acid, tributyl ester phosphoric acid, triphenyl ester

ONCE

caprolactam

PAHs

fluoranthene
methyl naphthalene
phenanthrene
pyrene

SHOs

trichlorobenzene hexachlorobenzene hexachlorobutadiene tetrachlorobenzne pentachlorobenzene

Because the method used to identify these compound has not been subjected to U.S. Army Toxic and Hazardous Materials Agency certification procedures, they

have no CRL. The lower limit of detection has been assumed to correspond to 10 percent of the internal standard for the GC/MS methods used, which is 0.3 ug/g.

The GC/MS analyses for VOs and SVOs were certified by the US Army Toxic and Hazardous Materials Agency to detect a variety of analtyes (listed in Appendix VSA-A) to accomplish the Phase I objective of identifying contaminants present in the study area. Phase II methods were developed and certified for use in further quantifying the concentrations of the target compounds identified in Phase I. These Phase II methods and the analytes detected by each method are also listed in Appendix WSA-B. The Phase II methods were more sensitive GC methods certified for fewer compounds at lower reporting limits. In addition, approximately 10 percent of the samples analyzed by GC methods were also analyzed by GC/MS for confirmation of the GC results. The Phase II methods and the analytes for which these methods were certified are listed in Appendix WSA-B. The CRLs for these methods are shown for each detected analyte in Table WSA 2.1-1.

Six laboratories performed analyses on soils and water samples collected during the RI. The analytic and quality assurance techniques employed during certification of analytical methods in the separate laboratories led to the establishment of lower and upper CRLs that are method, analyte, laboratory, and machine specific. Therefore the reported CRL may vary between samples. Lower CRLs for analytes detected during the RI fall within a range established by the most and least sensitive meethods from among the six laboratories. This lower CRL range is presented for each analyte in soil samples in Table WSA 2.2-1. Data values falling below their respective CRLs are reported as below CRL (BCRL). The most and least sensitive methods from among the six laboratories also define a range of upper CRLs; however, in some cases it was possible to report a value greater than the upper CRL while maintaining the litigation quality of the data. To accomplish this, samples with higher contaminant concentrations were diluted so that the instrument reading for the diluted sample fell below the CRL, and only exceeded the CRL when the dilution factor was applied to arrive at the final result. Data for these diluted samples represent the only values above the upper CRL that can be reported

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with the degree of accuracy and precision required by the U.S. Army Toxic and Hazardous Materials Agency.

In cases where the analytical values exceed the upper CRL and the samples were not diluted, an attempt was made to recover the actual instrument readings from the laboratory. This information was used to gain a qualitative understanding of the relative level of contamination in the samples. These results that were above the upper CRL are not of litigation quality and cannot be used with the same confidence as those falling within the CRLs.

To provide a complete review of information pertinent to the contamination assessment at RMA, data from investigations other than the RI have been included in this and previous reports where appropriate, even though the methods used were not U.S. Army Toxic and Hazardous Materials Agency certified. This use has set a precedent to consider nonlitigation quality data along with the litigation quality results obtained under the RI.

The inclusion of nonlitigation quality data was also done in consideration of the fact that sophisticated statistical manipulations of the data would not be carried cut for the purposes of the Study Area reports. Such manipulations were deemed inappropriate considering the large numbers of values that fell below the various lower CRLs as well as those values (estimated to be approximately one percent of the data set) that fell above the upper CRLs and were not the reualt of approved dilution procedures. It was determined that statistical manipulations of more limited data sets, such as those obtained from a single site, would be more appropriate and accurate for the FS. In the FS phase, more limited statistical evaluations could then be used to evaluate, on a case-by-case basis, the effects of the nonlitigation quality or out-of-range data on the contamination assessment and on the evaluation and selection of appropriate remedial measures.

2.1.2 Analytical Results

A summary list of the compounds detected above the CRLs in WSA soils and sediments is presented in Table WSA 2.1-1. These results represent the sample concentrations of each analyte less any concentration detected in the method blanks.

In order to present the analytical data in a summary form for this report, contaminant distribution maps are constructed by analyte group rather than by individual analyte, and data were grouped together over depth intervals larger than the standard sampling intervals. To further simplify the presentation of the analyte levels, ranges of concentrations are shown by dots of different sizes.

Separate maps were used to represent the results for samples falling in the 0 to 2, 2 to 5, 5 to 20, and greater than 20 ft depth intervals. Because of the relatively large depth intervals chosen for the maps showing analytes in soils, one dot may represent more than one sample from a given soil boring. A single dot may also represent from one to all of the analytes detected in an analyte group at a given location. For these reasons, the number of dots on a map may be less than the number of samples analyzed. Results for composite samples are shown on the maps for both depth intervals.

For the organic compounds, the soils data reported for each boring were separated into the depth intervals used in the maps. Next, the data were separated into analyte groups. To compute the total concentration of each group in the boring, the highest concentration of each analyte in the group was summed. The resulting sum is equal to or greater than the total concentration of that group in any one sample. This worst-case concentration is and represented on the map by the dot size corresponding to the concentration range attained.

The concentrations for the organic analyte groups were divided into four ranges, and are represented by progressively larger dots. The concentration ranges were based upon the following criteria:

- 1) Lowest CRL to 1.0 ug/g.
- 2) 1.0 ug/g to next order of magnitude.
- 3,4) Subsequent ranges based on orders of magnitude, not to exceed four ranges per map.

ICP metals were also mapped as group since these anlytes commonly occurred together. However, since metals concentrations were evaluated with respect to their natural concentrations in RMA soils, they were treated differently than organic analytes.

First, each metal concentration was compared to an indicatr range of natural concentrations. During the RI, indicator levels and ranges were established to assess the significant of the analytical values for target analytes in soils. The indicator levels for organic compound are the CRLs of the analytical methods for these compounds. The indicator ranges for metals reflect the concentrations expected to occur naturally in RMA alluvial soils. The upper limits of these ranges are:

Metal	Concentration (ug/g)
Arsenic	10
Cadimium	2.0
Chromium	40
Copper	35
Lead	40
Mercury	0.10
Zinc	80

Each ICP metal has a different indicator range and therefore cannot be compared directly on the basis of absolute concentration. For this reason, and because these metals tended to occur together in the WSA, the metals concentrations are not added together to give a total for plotting. Instead, the metal concentrations were compared to their indicator ranges and assigned to a relative range. The highest range attained by any one ICP metal in a given depth interval is represented on the map. The metal specific concentration ranges are based on the indicator ranges of the metals, as follows:

Metal	Range 1	Range 2	Range 3	Range 4
Cadmium	CRL-2.0	2.0-10	10-100	>100
Chromium	CRL-40	40-100	100-1,000	>1,000
Copper	CRL-35	35-100	100-1,000	>1,000
Lead	CRL-40	40-100	100-1,000	>1,000
Zinc	CRL-80	80-1,000	1,000-10,000	>10,000

Because metals concentrations below the upper limits of the indicator ranges are considered to be consistent with natural conditions, results that do not exceed those indica'er ranges are shown on the analyte distribution maps as open circles, like FCRL results. Values above the indicator ranges are shown as solid dots. The significance of the metals concentrations greater than their indicator ranges are discussed further in the contamination assessment section of the report (Section 3.0).

In addition to the presentation of these data in the analyte distribution map, a summary list of the compounds detected above the CRLz in WSA soils and sediments is presented by analyte group in Table WSA 2.1-1.

Most of the samples with detected analytes were collected from the sites rather than from outside the sites where little historic activity was documented. The occurrence and distribution of the potential contaminant groups VHO, VHC, VAO, DBCP, PAH, OCP, arsenic, mercury, and ICP metals are discussed in the following sections.

2.1.3 Distribution of Analytes

The general distribution in soils of groups of analytes is presented in this section. The main groups detected were volatile halogenated, aromatic, or hydrocarbon compounds; DBCP; organochlorine pesticides; polynuclear aromatic hydrocarbons; and metals, including arsenic and mercury. Minor occurrences of other organic contaminants were also detected.

2.1.3.1 Volatile Halogenated Organics

Volatile halogenated organic compounds (VHOs) were detected 45 times out of a total of 704 samples analyzed for VHOs in the WSA. The VHOs detected included carbon tetrachloride, 1,2-dichloroethylene, trichloroethylene, tetrachloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, chlorobenzene, and trichloropropene and were reported at a maximum concentration of 25 ug/g and as deep as 60 ft. Table WSA 2.1-1 presents the number of detections and the number of samples analyzed by sites, and the concentration range for each analyte. The distribution and concentration of VHOs in the 0 to 2, 2 to 5, 5 to 20, and greater than 20 ft depth intervals are shown in Plates WSA 2.1-1 through 2.1-4.

As shown in Table WSA 2.1-1, VHOs were found in six sites and Section 4. In borings where VHOs were detected, their occurrence was confined to only one depth interval. The plates show that no more than three detections were found in any depth interval in any site.

Tetrachloroethylene was the most commonly detected VHO and was present in all sites except the sanitary sewer (WSA-7a and WSA-7b). This was the only analyte of the group found at the same depth in adjacent borings. This occurred in the 5 to 20 and greater than 20 ft depth intervals in the motor pool (WSA-6). Concentrations of tetrachloroethylene did not exceed 2 ug/g in any sample.

The next most abundant VHO was 1,1,2,2-tetrachloroethane and was detected in the West and North landfills (WSA-2, and WSA-5), never exceeding a concentration of 2 ug/g. In some cases, the occurrence of this compound was attributed to laboratory contamination. The highest concentration of any VHO compound was 25 ug/g of trichloroethylene in the west landfill (WSA-2). In this same sample, the only occurrence of 1,2-dichloroethylene reached the second highest VHO concentration of 5.9 ug/g. Scattered occurrences of other VHOs did not exceed concentrations of 1 ug/g.

In general, VHOs were found scattered in low frequency and low concentrations in the WSA. Tetrachloroethylene, 1,1,2,2-tetrachloroethane, and trichloroethylene were the three most commonly detected VHOs.

2.1.3.2 Methylene Chloride

Methylene chloride was detected 28 times out of a total of 558 samples analyzed for methylene chloride in the WSA. It was detected at a maximum concentration of 800 ug/g and as deep as 75 ft. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for methylene chloride. The distribution and concentration of methylene chloride for the 0 to 2, 2 to 5, 5 to 20, and greater than 20 ft depth intervals are shown in Plates WSA 2.1-5 through 2.1-8.

As shown in Table WSA 2.1-1, methylene chloride was reported in samples from the railyard (WSA-1), east landfill (WSA-3), open storage yard (WSA-4), north landfill (WSA-5), motor pool (WSA-6), and sanitary sewer - surrounding soils (WSA-7b). None was reported in the sanitary sewer - internal sediment (WSA-7a), west landfill (WSA-2), or the areas outside of the site boundaries. Although methylene chloride was included in the volatile halogenated organic compounds analyte group, it has been treated separately in this report because the frequency of detection of methylene chloride in the laboratory blanks associated with the soils samples casts doubt as to whether this compound is actually present in WSA soils. It should be noted that this detection occurred in selected samples owing to laboratory contamination and those samples can be identified.

Methylene chloride was not detected in any samples from the 0 to 2 ft depth interval. The 2 to 5 ft depth interval showed methylene chloride detected in samples from seven borings. Samples from the railyard, (WSA-1) the east landfill (WSA-3), the open storage yard (WSA-4), and north landfill (WSA-5) had concentrations of less than 10 ug/g. One additional sample from the north landfill (WSA-5) had methylene chloride detected in the 10 to 100 ug/g concentration range.

Samples from eight borings in the 5 to 20 ft depth interval indicated methylene chloride at concentrations of less than 10 ug/g. These samples were from the railyard, (WSA-1) the east landfill (WSA-3), the open storage yard (WSA-4), and the motor pool (WSA-6).

Methylene chloride was reported in samples from seven depths greater than 20 ft. Six of these were at concentrations of less than 10 ug/g and were from the railyard (WSA-1), the east landfill (WSA-3), and the north landfill (WSA-5). The remaining sample was from the north landfill (WSA-5) and a concentration of 800 ug/g was detected.

In summary, methylene chloride was found at concentrations of less than 10 ug/g in the railyard (WSA-1), east landfill (WSA-3), open storage yard (WSA-4), north landfill (WSA-5), and motor pool (WSA-6). The north landfill (WSA-5) was the only site to yield samples containing methylene chloride at

concentrations greater than 10 ug/g. The distribution of samples containing methylene chloride seems to be random with respect to depth and location.

2.1.3.3 Volatile Hydrocarbons and Related Compounds

VHCs were detected ten times out of a total of 771 samples analyzed for VHCs in the WSA. This group contains some compounds that are not hydrocarbons, but are grouped with VHCs because of similar environmental properties and distributions. The VHCs detected included methylisobutyl ketone, dicyclopentadiene, methyl cyclohexane, 4-hydroxy-4-methyl-2-pentanone, bicycloheptadiene, and 2-butoxyethanol and were reported at a maximum concentration of 60 ug/g and as deep as 40 ft. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for each analyte. The distribution and concentration of VHCs for the 0 to 2, 2 to 5, and 5 to 20 ft depth intervals are shown in Plates WSA 2.1-9 through 2.1-11.

As shown in Table WSA 2.1-1, VHCs were reported in samples from all sites except the railyard (WSA-1), sanitary sewer (WSA-7a and WSA-7b), and areas outside site boundaries. Three samples from the motor pool (WSA-6) contained VHCs in the 1 to 10 ug/g concentration range. One was a surface sample in the south end of the motor pool (WSA-6), one was from the 2 to 5 ft depth interval near Tank 629A in the north part of the motor pool (WSA-6), and the other was from the 2 to 5 ft depth interval near Tank 629D. VHCs were detected five times in the 5 to 20 ft depth interval. The east landfill (WSA-3) and open storage yard (WSA-4) each yielded one sample in the 0.20 to 1 ug/g concentration range. The north landfill (WSA-5) yielded four samples at concentrations ranging from 1 to 60 ug/g.

2.1.3.4 Volatile Aromatic Organics

VAOs were detected ten times out of a total of 668 samples analyzed for VAOs in the WSA. The VAOs detected included benzene, ethylbenzene, m-xylene, and toluene and were found at concentrations of less than 10 ug/g and as deep as 60 ft. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for each analyte. The distribution and concentration of VAOs for the 0 to 2 and 2 to 5 ft depth intervals are shown in Plates WSA 2.1-12 and 2.1-13.

As shown in Table WSA 2.1-1, VAOs were found in the railyard (WSA-1), east landfill (WSA-3), open storage yard (WSA-4), and motor pool (WSA-6) within the WSA. The motor pool (WSA-6) had the most detections of the three sites. VAOs were detected four times at concentrations of 2 to 4 ug/g. Three detections occurred in the 4 to 5 ft interval near Tank 629D. The other was a surface sample taken near Tank 627B. The open storage yard (WSA-4) had three detections of toluene ranging from 0.4 to 1 ug/g and as deep as 60 ft. Tolene was also detected in the east landfill (WSA-3). Two detections of 0.3 ug/g occurred in the northwest corner in the 0 to 1 and 14 to 15 ft depth intervals. Benzene was detected next to the railroad track in the northeast corner of the railyard at a concentration of less than than 1 ug/g in the 2 to 5 ft depth interval.

Few samples from the WSA contained VAOs. When these compounds were detected, they did not exceed 10 ug/g, however, they did appear at depths up to 60 ft.

- 2.1.3.5 Organosulfur Compounds Mustard Agent Related
 OSCMs were detected two times out of a total of 806 samples. The only OSCM detected was chloroacetic acid at a maximum concentration of 70 ug/g. This compound was detected only in internal sediments of the sanitary sewer. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for chloroacetic acid. These detections were not mapped because they were distributed only inside the sewer.
- 2.1.3.6 Organosulfur Compounds Herbicide Related
 OSCHs were detected one time out of 806 samples. The OSCH detected was
 benzothiazole in the motor pool at a concentration of 0.3 ug/g and a depth of
 5 ft. Table WSA 2.1-1 presents the number of detections, the number of
 samples analyzed, and the concentration range for benzothiazole. The
 detection was not mapped because Benzothiazole was found only in a motor pool
 area (WSA-6) ditch.
- 2.1.3.7 Organophosphorous Compounds GB Agent Related
 Phosphoric acid, tributyl ester was the only OPHGB detected in two out of 806 samples. The maximum concentration and depth were 2.8 ug/g and 5 ft,

respectively. This compound was reported in two composite samples outside of the site boundaries in Section 3. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and concentration range for phosphoric acid, tributyl ester. These detections were not mapped because there were too few to warrant it.

2.1.3.8 DBCP

In September 1982, Geraghty and Miller, Inc., conducted DBCP analyses on samples collected in the railyard (Geraghty & Miller, 1982/RIC 81342R06). Five borings were drilled and sampled in the area around Well 03523, between Wells 03008 and 03010. These samples contained DBCP concentrations ranging from 0.4 to 21 ppb. These detections occurred to a depth of 45 ft.

During the RI, DBCP was detected three times out of a total of 817 samples analyzed in the WSA. DBCP was found at a maximum concentration of 1.3 ug/g and no deeper than 1 ft. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for DBCP. The distribution and concentration of detections for the 0 to 2 ft depth interval are shown in Plate WSA 2.1-14.

As shown in Table WSA 2.1-1, DBCP was found in the motor pool (WSA-6) and railyard (WSA-1) within the WSA. The three samples containing DBCP were all taken from borings in drainage ditches, one in the motor pool (WSA-6) near Tank 627B and two from the center of the railyard (WSA-1), next to the railroad tracks on the west side.

2.1.3.9 Polynuclear Aromatic Hydrocarbons

PAHs were tentatively identified 33 times out of 806 samples. The PAHs identified were pyrene, fluoranthene, and methyl naphthalene. These compounds were reported at a maximum concentration of 300 ug/g and as deep as 10.5 ft. Table WSA 2.1-1 presents the number of identifications, number of samples analyzed, and the concentration range for each analyte. The maps for PAHs show only tentative identifications, since the GC/MS methods that detected these compounds were not certified for PAHs. The distribution and concentrations of PAHs in the 0 to 2, 2 to 5 and 5 tp 20 ft intervals are shown in Plates WSA 2.1-15, 2.1-16, and 2.1-17.

PAHs were found in the railyard (WSA-1), west landfill (WSA-2), east landfill (WSA-3), north landfill (WSA-5), motor pool (WSA-6), and in Section 9. The majority of these identifications (13) occurred in the motor pool (WSA-6). Five identifications occurred along the railroad tracks east of Buildings 624 and 625. The highest levels in these samples were of fluoranthene or pyrene 30 to 40 ug/g. Another cluster of identifications occurred in the area of the tank farm. The majority of these were of methyl naphthalene. The highest concentration of methyl naphthalene, 200 ug/g, was found next to Tank 629D. Four occurrences of PAHs were found in three railyard borings. The PAHs found in the railyard were fluoranthene and pyrene.

2.1.3.10 Semivolatile Halogenated Organics

SHOs were detected three times out of 813 samples analyzed for SHOs. The SHOs detected included hexachlorobutadiene, hexachlorocyclopentadiene, and tetrachlorobenzene. These compounds were found at a maximum concentration of 4.7 ug/g and as deep as 10 ft. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed and concentration range for each analyte. These detections were not mapped because there were to few to warrant it.

As shown in Table WSA 2.1-1, SHOs were found in the west landfill (WSA-2), the east landfill (WSA-3), and the north landfill (WSA-5). The single occurrence of hexachlorocyclopentadiene was found in the west landfill (WSA-2) in a surface sample and was at a concentration of 5 ug/g. The single occurrence of hexachlorobutadiene occurred in the disposal pit in the east landfill (WSA-3). It was identified in the 9 to 10 ft sample interval at a concentration of 0.4 ug/g. The only occurrence of tetrachlorobenzene was found in a north landfill (WSA-5) trench. It was found in the 5 to 6 ft sample interval at a concentration of 1 ug/g.

2.1.3.11 Organochlorine Pesticides

OCPs were detected 14 times out of a total of 806 samples analyzed for OCPs in the WSA. The OCPs detected included aldrin, dieldrin, endrin, and isodrin and were found at concentrations of less than 100 ug/g and as deep as 63 ft.

Table WSA 2.1-1 presents the number of detections, the number of samples

analyzed and the concentration range for each analyte. The distribution and concentration of OCPs for the 0 to 2, 2 to 5, 5 to 20, and greater Than 20 ft depth intervals are shown in Plates WSA 2.1-18 through 2.1-21.

As shown in Table WSA 2.1-1, OCPs were found in the railyard (WSA-1), west landfill (WSA-2), north landfill (WSA-5), and motor pool (WSA-6). In the railyard, OCPs were detected three times in a boring next to a roadway by Building 619. Aldrin and dieldrin were found in the surface sample of this boring in the 1 to 10 ug/g concentration range, and dieldrin was found in the next sample from this boring at a concentration of less than 1 ug/g.

OCPs including aldrin, endrin, and dieldrin were found in samples from the west and north landfills (WSA-2 and WSA-5) at concentrations of less than 10 ug/g. These OCPs were found in borings both inside and outside of the disposal trenches and ranged as deep as 6 ft. In addition, a sample from the north landfill (WSA-5) contained isodrin in the 10 to 100 ug/g concentration range, also at a depth of 6 ft.

In the motor pool (WSA-6), aldrin was found in two samples from one boring between Buildings 625 and 624 at depths greater than 20 ft and at concentrations of less than 10 ug/g. The deepest sample containing aldrin was taken from directly above the water table at a depth of 63 ft.

In summary, OCPs were found near the surface in the railyard (WSA-1) and the west and north landfill (WSA-2 and WSA-5). No obvious correlation between the location of the detections and the locations of the disposal trenches in the landfills was noted. OCPs were also detected in samples collected from near the water table in the motor pool (WSA-6).

2.1.3.12 Arsenic

Arsenic was detected 28 times out of a total of 778 samples analyzed for arsenic in the WSA. Arsenic was found at a maximum concentration of 27 ug/g and as deep as 60 ft. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for arsenic. The

distribution and concentration of arsenic for the 0 to 2, 2 to 5, 5 to 20, and greater than 20 ft depth intervals are shown in Plates WSA 2.1-22 through 2.1-25.

As shown in Table WSA 2.1-1, arsenic was found in all sites except the east landfill (WSA-3). Of the 29 samples containing arsenic, only seven samples showed concentrations in excess of the upper indicator limit of 10 ug/g for arsenic. These seven samples all contained arsenic in the 10 to 100 ug/g concentration range, and none was detected deeper than 20 ft.

Three of the seven samples containing greater than 10 ug/g of arsenic were found in the 0 to 2 ft interval of the motor pool (WSA-6) where elevated levels of ICP metals also were found. The 2 to 5 ft interval contained arsenic above its indicator range in two samples, one from the motor pool (WSA-6) and one from the west landfill (WSA-2). The north landfill (WSA-5) was the only area containing elevated levels of arsenic in the 5 to 20 ft depth interval. It was found at depths of approximately 5.5 ft and 7.5 ft. The same north landfill (WSA-5) samples also contained elevated levels of ICP metals.

In summary, arsenic was found frequently at concentrations within its indicator range in the WSA. Elevated levels of arsenic were found occasionally in the motor pool (WSA-6) and the west and north landfills (WSA-2, and WSA-5), usually in conjunction with elevated levels of ICP metals.

2.1.3.13 Mercury

Mercury was detected 32 times out of a total of 787 samples analyzed for mercury in the WSA. Mercury was found at a maximum concentration of 4.0 ug/g and as deep as 10.5 ft. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for mercury. The distribution and concentration of mercury for the 0 to 2, 2 to 5, 5 to 20, and greater than 20 ft depth intervals are shown in Plates WSA 2.1-26 through 2.1-29.

As shown in Table WSA 2.1-1, mercury was found in all sites except the east landfill (WSA-3). Of the samples containing mercury, 21 were at concentrations above its upper indicator level of 0.1 ug/g.

Surface samples containing mercury above its indicator level were found in the motor pool (WSA-6) (8 samples), at the overflow ditches of 2 samitary sewer (WSA-7) lift stations (2 samples), and in the west landfill (WSA-2) (1 sample).

Samples from six borings in the 2 to 5 ft depth interval contained mercury above its indicator range. Only two of these samples were from the motor pool (WSA-6), and mercury was present in samples from the 0 to 2 ft depth interval directly above both of these. Three of the remaining four samples were collected from the west landfill (WSA-2). The other sample was collected from a boring west of the north landfill (WSA-5). One of the samples from the west landfill (WSA-2) contained the highest concentration of mercury detected in the WSA, 4.0 ug/g.

Samples from five borings were found to contain mercury above its indicator range in the 5 to 20 ft depth interval. Of these, three were in the west and north landfill (WSA-2 and WSA-5), one was from the open storage yard (WSA-4), and one was from near the ruilroad tracks at the south end of the railyard (WSA-1). None of these samples was desper than 10.5 ft. Mercury was not detected above its indicator range at depths greater than 20 ft.

In general, mercury was detected above its indicator range in surface samples from the motor pool (WSA-6) and in varying depths up to 10.5 ft in the west and north landfill (WSA-2 and WSA-5), the open storage yard (WSA-4), and the railyard (WSA-1).

2.1.3.14 ICP Metals

ICP metals were detected 2,171 times out of a total of 859 samples analyzed for ICP metals in the WSA. All of the ICP metals, cadmium, chromium, copper, lead, and zinc, were detected. The maximum concentration detected was 9,700 ug/g of copper. Table WSA 2.1-1 presents the number of detections, the number of samples analyzed, and the concentration range for each analyte. The

distribution and concentration of ICP metals for the 0 to 2, 2 to 5, 5 to 20, and greater than 20 ft depth intervals are shown in Plates WSA 2.1-30 through WSA 2.1-33.

As shown in Table WSA 2.1-1, ICP metals were found throughout the WSA. Virtually every sample collected from the 0 to 2 and the 2 to 5 ft depth intervals contained one or more of the ICP metals. In general, concentrations were within or slightly above indicator ranges, with the exception of the motor pool (WSA-6) where concentrations of metals often exceeded their indicator ranges. Isolated samples from the east and west landfill (WSA-3 and WSA-2) also contained concentrations of the ICP metals well above their indicator ranges.

All of the sites except for the sanitary sewer (WSA-7a and WSA 7b) were sampled for ICP metals in the 5 to 20 and greater than 20 ft depth intervals. Nearly all samples contained ICP metals below or slightly above their indicator ranges in these sites. The highest concentrations of ICP metals were found in three samples from the north and west landfill (WSA-5 and WSA-2), all in the 5 to 20 ft depth interval.

In general, ICP metals were found throughout the WSA, usually below indicator levels. Elevated concentrations were found primarily in the motor pool (WSA-6), with isolated instances also occurring in the east, west, and north landfills (WSA-3, WSA-2, and WSA-5).

2.2 SURFACE WATER CONTAMINANTS

With the exception of some drainage ditches from the motor pool (WSA-6) wash bay, others in the railyard (WSA-1), and a natural, subdued, and poorly integrated intermittent surface drainage network, there are no significant surface water features in the WSA. Therefore, no comprehensive surface water sampling program could be conducted in the WSA. Surface water does not occur in the WSA except as brief pulses of runoff following excessive rainfall or snowmelt events. However, in 1982 and 1984 some surface water and sludge samples were collected from near the motor pool (WSA-6) and railyard (WSA-1).

Scar data collected in 1987 from the sanitary sewer (WSA-7) are also included in this section.

Water and sludge samples collected in 1984 from the ditch that carried discharge from the motor pool (WSA-6) wash bay (Building 627) contained several nontarget compounds, including some components of a solvent-emulsifier degreaser, butoxyl ethanol, trimethyl benzene, trimethyl and nonyl phenol, substituted naphthalenes, and probably tridecame (Witt, 1984).

One of six surface water samples collected from the vicinity of the railyard (WSA-1) in 1982 contained detectable levels of DBCP. The exact locations of these samples were not documented (Geraghty & Miller, 1982/RIC 81342RO6).

Water samples were also collected from the sanitary sewer system (WSA-7a and WSA-7b) in the study area prior to the Phase I sampling; chloroform was detected in these samples at 16 to 37 ug/1 (USAEHA, 1985), while downstream samples collected from the sewer system outside the study area contained isodrin and DBCP at levels below 1 ug/1 (Black & Veatch, 1979/RIC 81266R35; Jones, 1987).

Samples were taken in 1986 from a sump in the motor pool (WSA-6) roundhouse and from a cavity that was connected to the septic system to the north of the roundhouse (Ebasco, 19881). The highest concentration of each analyte detected in these samples is listed below.

Analyta	Concentration (ug/1)
1,1-Dichloroethane	580
1,1,1-Trichloroethane	280
Chloroform	58
Tetrachloroethylene	180
Benzene	23
Ethylbensene	2.3
m-Xylene	260
o- and p-Xylene	40
Toluene	8.6

2.3 SOIL GAS STUDIES

Three soil gas programs were conducted in the WSA to help locate organic contaminants in the groundwater and in the vadose zone. These programs involved sampling the atmosphere between the water table and the ground

surface and analyzing the samples for traces of target organic compounds that might have evaporated from the groundwater surface or possible concentrations in the vadose zones. These programs can provide general indications of potential contamination but cannot directly delineate potential contamination of soils or groundwater.

The first program was conducted by Tracer Research Corporation (TRC) in early 1986 in Sections 3, 4, and 33 (Ebasco, 1988a/RIC 88046R01). Samples of soil gas were collected and analyzed in the field by gas chromatography, providing nearly real-time data. Sampling was begun in the motor pool (WSA-6), where groundwater analyses had initially detected trichloroethylene, and subsequent sampling transects were located to determine both the upgradient and downgradient extent of the contaminant plume. Additional sampling was conducted at areas of suspected contamination, specifically around septic tanks in Section 3 and the west and east landfill (WSA-2 and WSA-3). In addition to trichloroethylene, all samples were analyzed for tetrachloroethylene and 1,1,1-trichloroethane, and in the area around the landfills samples were also analyzed for VAOs, including benzene, toluene, ethylbenzene, and xylenes.

A total of 256 samples were collected in the TRC soil gas program. Trichloroethylene was detected in 138 samples and tetrachloroethylene was detected in 254 samples. Benzene and toluene were detected in only one sample, just north of the west landfill (WSA-2).

Using these TRC data, two trichloroethylene soil gas trends were mapped. One extended northwest from the motor pool (WSA-6), and a north-south trend was mapped in central Section 4 (Figure WSA 2.3-1). Because of the nearly ubiquitous presence of tetrachloroethylene and 1,1,1-trichloroethane at low levels throughout the TRC soil gas study area, only trends of concentrations higher than apparent background were defined. Tetrachloroethylene at concentrations greater than background levels of 6 X 10 mg/1 of air was found in sampling stations at the southern end of the motor pool (WSA-6), in, west of, and extending northward from the west landfill (WSA-2), and in the southwestern part of Section 33 (Figure WSA 2.3-2). Concentrations of

1,1,1-trichloroethane greater than a background level of more than 2 X 10⁻³ ug/l of air were detected mainly in sampling stations grouped along the western and southern parts of the motor pool (WSA-6), north of the east landfill (WSA-3), and around the west landfill (WSA-2) (Figure WSA 2.3-3).

While these distributions were too indefinite to define trends across the area, concentrations were higher in the southern part of the motor pool (WSA-6), and in the case of tetrachloroethylene, in the west landfill (WSA-2). Lower concentrations of 1,1,1-trichloroethane were found in the east landfill (WSA-3), and of tetrachloroethylene were found in the west landfill (WSA-2).

The second soil gas program in the study area was conducted in the spring of 1986 by PETREX (Ebasco, 1988a/RIC 88046R01). Static samplers were exposed over a period of approximately one month and provided an integrated measure of the soil gas flux at each sampling point. There is no direct correlation between the concentration of a potential contaminant source and the measured contaminant flux; rather the measured flux is proportional to the emanation rate from a source, which may be affected by a variety of factors.

A total of 922 samples were collected in the PETREX study in the area shown in Figure WSA 2.3-4.

The results of the PETREX study indicated the generally ubiquitous distribution of tetrachloroethylene at highly variable flux. The results for trichloroethylene confirmed to the previous study results for distribution at the west landfill (WSA-2). Isolated hits of trichloroethylene were also detected in Sections 3 and 9, and 1,1,1-trichloroethane was detected at 16 stations distributed randomly in Sections 4, 9, and 33. Chloroform was detected in approximately 10 percent of the samples collected during the PETREX study. About one-half of these detections of chloroform were concentrated along the railroad line diagonally crossing Section 33 and extending along the northern boundary of Section 3, at highly variable flux. The remainder were randomly distributed across the PETREX study area in Sections 33, 4, and 9.

The third soil gas investigation in the WSA was conducted in 1987 by PETREX prior to the Phase II program in the railyard (WSA-1) (Ebasco, 1988e/RIC 88076R04). One sample location out of 89 in the railyard had DBCP at a detectable flux level. This location was 100 to 200 ft from where Geraghty and Miller detected by DBCP in 1982 (Geraghty & Miller, 1982/RIC 81342R06.

2.4 GROUNDWATER CONTAMINANTS

Groundwater quality data have been collected from numerous wells in the study area (Plate WSA 1.4-1). Like the soils data, groundwater data in this section are presented in analyte groups. Samples were not all analyzed for each compound in these groups. Analytical results of groundwater samples from the unconfined aquifer are presented in Table WSA 2.4-1. Results of confined Denver groundwater analyses are presented in Table WSA 2.4-2. Tentatively identified target compounds in samples from both alluvial and Denver Wells are summarized in Table 2.4-3.

Groundwater chemical data presented in this section are averaged in two ways; over time and over the thickness of the aquifer. The average over time is used in this report to composite data that are elsewhere displayed by individual sampling date in the Water RI Report. The averaged values are presented to show a more general pattern of all locations where analytes have been detected and may migrate in the future in both the unconfined and Denver aquifers. The average value for each analyte in a single well is calculated as a geometric means as follows:

Average value =
$$(n/s)$$
 ($a_1 \times a_2 \times a_3 \times ... a_n$) $^{1/n}$,

where n = number of hits,

s = number of samples collected, and

a = concentration of the nth hit.

This geometric mean is used to approximate the true mean of a log normally distributed statistical population and uses the factor n/s to adjust the mean for sample results that were below CRL.

The values from well clusters in the unconfined aquifer are also averaged over the thickness of the aquifer so that data taken from these well clusters can be compared directly to data from other monitoring wells that are fully screened in the aquifer. These averaged values are also intended to better predict the analyte concentrations that would be found in water taken from water supply or containment system extraction wells that draw groundwater from the full thickness of the unconfined aquifer.

The chemical data used in these averages are from the period January 1984 to March 1988. Data collected prior to January 1984 has not been used because groundwater flow and chemical concentrations had not been adjusted to pumping of the Irondale Containment System in Sections 28 and 33, which began operating two years earlier. The source of these data is the Installation Restoration Data Management System (IRDMS). These data are available through the RMA Information Center.

2.4.1 Unconfined Aquifer

A summary of analytes detected in WSA alluvial groundwater are presented in Table WSA 2.4-1. A summary of tentatively identified target compounds in groundwater from both alluvial and Denver wells is presented in Table WSA 2.4-3.

All of the VHOs except for trichloropropene were detected in groundwater of the WSA. These compounds were 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, 1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, carbon tetrachloride, chlorobenzene, chloroform, tetrachloroethylene, and trichloroethylene.

Most of these halogenated compounds were widespread across the study area and their averaged concentrations were mainly in the 10 to 100 ug/1 range (Plate WSA 2.4-1). Tetrachloroethylene occurred only in the western part of the study area, and trichloroethylene was found at higher concentrations than the other compounds in this group.

Trichloroethylene reached its highest average concentration in the motor pool (WSA-6), at 160 ug/1 (Figure WSA 2.4-1). Other relatively high concentrations

of trichloroethylene occurred in a plume extending north-northwest from the motor pool (WSA-5). Other VHO compounds detected in the vicinity of this groundwater plume include 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,2-dichloroethane, 1,2-dichloroethylene and chloroform. The VHO compounds 1,1-dichloroethane, 1,1-dichloroethylene, and carbon tetrachloride were detected in alluvial wells located in the northern portion of the motor pool (WSA-6), but were not detected in downgradient wells to the north-northwest.

A separate trichloroethylene plume extended north from the southern RMA boundary through central Sections 4 and 9 (Figure WSA 2.4-1). The average concentration of trichloroethylene in this plume reached a high of 49 ug/1 in upgradient Well 09013 at the southern RMA boundary. The only other average VHO concentration exceeding 100 ug/1 in the WSA was reported in this same well for 1,1,1-trichloroethane at 110 ug/1. Other VHO compounds detected along the trend of this trichloroethylene plume include 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,-dichloroethylene, chlorobenzene, 1,2-dichloroethylene and chloroform. 1,1-dichloroethane and 1,2-dichloroethane were detected in upgradient Wells 09013 and 09014 located at the southern RMA boundary mentioned above. One well located in Section 4 and within the trend of this plume contained detectable carbon tetrachloride in one out of five sampling episodes.

The vertical distribution of tricholoroethylene varied between the plume extending north-northwest from the motor pool (WSA-6) area and the one crossing the centers of Sectins 4, 9, and 33 (Figure WSA 2.4-1). In the motor pool (WSA-6) area (Wells 04030-33), trichloroethylene was at a much higher concentration in the upper part of the aquifer and was at similar concentrations in upper and lower wells in downgradient aprts of the plume (Wells 04021-23). In the plume through Sections 4 and 9, trichloroethylene was at similar concentrations in the upper and lower parts of the aquifer.

VHO compounds were detected in off-post wells to the west of WSA within an alluvial groundwater plume. Tetrachloroethylene was detected in numerous wells off-post and in alluvial wells located in the western portions of Sections 4, 9, and 33 in the WSA. Tetrachloroethylene was not identified in

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1004Z/1016A WSAR 3.2/Rev.04/29/89 other alluvial groundwater plumes described in this report. Trichloroethylene was also detected in off-post wells at generally higher concentrations than in wells of the western portion of the WSA. Other VHO compounds detected off-post to the west include 1,1,1-trichloroethane, 1,1-dichloroethane, and 1,1-dichloroethylene. Chlorobenzene and 1,2-dichloroethylene were detected in alluvial wells located in the western portion of Section 4.

Chloroform was the only VHO compound detected in alluvial groundwater within the railyard (WSA-1). Eight alluvial wells of Section 33 near the Irondale Containment System contained detectable trichloroethylene.

The vertical distribution of trichloroethylene varied between the plume extending north-northwest from the motor pool (WSA-6) and the one crossing the centers of Sections 4, 9, and 33 (Figure WSA 2.4-1). In the motor pool (WSA-6) (Wells 04030-31), trichloroethylene was detected at a much higher concentration in the upper part of the aquifer. Concentrations were similar between upper and lower wells in each downgradient well clusters. In the plume through Sections 4 and 9, trichloroethylene was at similar concentrations in the upper and lower parts of the aquifer in both upgradient and downgradient of WSA sites.

VAOs detected in the unconfined aquifer of the WSA included benzene, toluene, and xylenes. Except for in a well at the northwestern boundary of the study area, benzene and other aromatics occurred only in the railyard and in the western two-thirds of the study area (Plate WSA 2.4-2). Benzene was the aromatic most commonly detected on-post. Benzene in alluvial groundwater has been detected in a linear plume extending northward from the west landfill (WSA-2) vicinity to the southwest corner of Section 33. The highest average concentration of benzene within this plume is 11 ug/1. Another plume of benzene in alluvial groundwater extends northwest from the motor pool (WSA-6) area to the southern portion of Section 33. Benzene in this plume reached a maximum average concentration of 89 ug/1 in the motor pool (WSA-6) area and 2.4 ug/1 in downgradient wells. Spatially isolated occurrences of benzene were detected in the railyard (WSA-1) and in the vicinity of the east landfill (WSA-3) at average concentrations of 2.3 and 1.2 ug/1, respectively. Toluene

was also detected in two wells in the railyard (WSA-1), one well near the RMA boundary in southern Section 9, and one well in southwestern Section 33.

Xylenes were detected in one well located in the railyard (WSA-1) and one well in the northwest corner of Section 4.

The summed average concentration of aromatic compounds in each well was less than 10 ug/l in all locations but two. Benzene was detected at an average of 89 ug/l in the motor pool (WSA-6) and at 11 ug/l in a well in the west landfill (WSA-2).

A DBCP groundwater plume was found mainly to extend from the railyard at its upgradient end north-northwest to the Irondale Containment System in Section 33 (Plate WSA 2.4-3). Numerous samples taken in and downgradient from the containment system detected no DBCP or other pesticides at or beyond the RMA boundary. The DBCP plume consisted almost entirely of average concentrations of less than 10 ug/1, with higher average concentrations (up to 40 ug/1) found only in one well in the railyard (WSA-1) and in one well in northeastern Section 4.

OCPs were detected in alluvial groundwater samples from on-post areas to the northeast of the study area, and included aldrin, dieldrin, and endrin (Plate 2.4-4). Dieldrin was found most frequently, with fewer occurrences of aldrin and endrin. The sum of the averaged concentrations of pesticides in each of these wells did not exceed 10 ug/l. Isolated occurrences of aldrin, dieldrin, and isodrin were detected in western Section 3, northern Section 4, and Section 33. These average concentrations of these occurrences were less than 10 ug/l in each well.

Other compounds detected in on-post alluvial groundwater samples in and around the study area included methylene chloride, organosulfur compounds (chlorophenylmethyl sulfone, chlorophenylmethyl sulfoxide, and oxathiane), organophosphorous compounds (disopropylmethylphosphonate and dimethylmethyl phosphonate), an organonitrogen compound (caprolactum), semivolatile halogenated organics (hexachlorocyclopentadiene), arsenic, mercury, and ICP metals.

Methylene chloride was detected in six wells on the western side of the study area in Sections 4 and 33. The highest averaged concentration reported was 14 ug/l in a well located in the northwestern portion of Section 4.

An isolated occurrence of chlorophenylmethyl sulfone was reported in a well in the southern portion of Section 34, at an average concentration of 0.95 ug/1.

Caprolactam, a possible plasticizer, was found at averaged concentrations up to 2,200 ug/l in one well in the north portion of Section 33, three wells in the northeast corner of Section 4, and one well in the northwest corner of Section 9.

An isolated occurrence of the semivolatile halogenated organic hexachlorocyclopentadiene was reported in the railyard (WSA-1) at an average concentration of 0.17 ug/1.

Metals and other inorganic analytes were also monitored in alluvial groundwater samples. Samples were put through a 40 micron filter and then analyzed for chloride, fluoride, sulfate, nitrates, calcium, magnesium, sodium, potassium, cadmium, chromium, copper, lead, zinc, mercury, and arsenic. Mercury was not detected in alluvial groundwater samples. Arsenic was detected at concentrations near the CRL in three wells at diverse locations in Section 3, 4, and 9. Cadmium was detected at concentrations near the CRL in two wells within the western half of Section 33. Chromium was detected in numerous wells throughout the WSA, at concentrations ranging from the CRL to 14 mg/1. No trends or patterns of chromium in alluvial groundwater is apparent. The highest concentration of chromium detected was 21 ug/1, and came from a well in the southwest corner of Section 34. Copper was detected at only three locations, and ranged in averaged concentration from 4.0 to 5.6 ug/1. Lead was detected in seven wells, generally at concentrations near to CRL. Well 03002 is located in the railyard (WSA-1) and contained the highest average concentration of lead at 19 ug/1. Zinc in alluvial groundwater is nearly ubiquitous, ranging in concentration from BCRL to 150 ug/1. Data from cluster wells within the alluvial aquifer demonstrated that lower concentrations of zinc (25-75 ug/1) occur in sample closer to the water table

surface, and higher concentrations (100-150 ug/1) occur in water sampled closer to bedrock.

In summary, the distribution of organic compounds in alluvial groundwater is different for different types of compounds. VHOs were found mainly in Sections 4, 9, and 33, and occurred at the highest average concentrations in the motor pool (WSA-6) and along a north-south trend through Sections 4 and 9. VAOs occurred mostly in and downgradient from the railyard (WSA-1). Dibromochloropropane was found mainly in a plume between the railyard (WSA-1) and the Irondale Containment System. OCPs were detected mainly to the northeast of the study area. The other detected target organic analytes were scattered low concentrations that do not define any patterns or trends.

2.4.2 Denver Aguifer

Target analytes from the VHO, VAO, OCP and ICP groups, as well as arsenic and mercury were detected in Denver Formation groundwater from the WSA. A summary of the analytical results for groundwater samples from the confined Denver Formation aquifer is presented in Table WSA 2.4-2. The distribution of organic analytes in the Denver Formation groundwater in the WSA varied by group. VHOs showed no particular distribution trends in the study area. Chloroform was detected adjacent to the north landfill (WSA-5) and the railyard (WSA-1). Benzene was found extending from the northwest part of Section 3 northwestward toward the Irondale Containment System. Total VHO and VAO levels in Well 04009 in the northwest corner of Section 4 were higher than in other WSA Denver Formation wells. OCP detections were scattered widely across the study area.

VHOs detected in Denver Formation groundwater in the study area included 1,2-dichloroethane, 1,1,2-trichloroethane, and chloroform. Average VHO detections in WSA groundwater were all less than 10 ug/l and were from wells in Section 4, near the north landfill (WSA-5) and along the WSA boundary, and in Section 3 near the railyard (WSA-1) (Figure WSA 2.4-2). The detection of 1,1,2-trichloroethane and 1,2-dichloroethane in Section 4 near the WSA boundary was from a well screened in zone 5 sand of the Denver Formation. Chloroform was the only VHO detected near the north landfill (WSA-5). The

detection of 1,2-dichloroethane and chloroform near the railyard (WSA-1) was acreened in a Denver zone 4 sand.

VAOs detected in the Denver Formation groundwater included benzene, ethylbenzene, toluene, and xylenes. Benzene was the most commonly detected aromatic on-post, as it was in the alluvial groundwater. With one exception, VAO hits were confined to the northwestern and western boundaries of the study area, from Sections 33 and 4 (Figure WSA 2.4-3). The highest summed average VAO concentration (184 ug/1) was from Well 04009 in the northwest corner of Section 4, screened in Denver Formation zone 5 sandstone. All other VAO detections were benzene only, averaged less than 10 ug/1, and were from wells screened in zones 3, 4, 5, 6, and 7. The highest average benzene level (8.2 ug/1) was detected in a well located near the northwest corner of Section 3 (Well 03003) west of the railyard, and screened in Zone 3. Benzene levels tended to decrease to the northwest.

Samples from Well 04009 had hits of all three target organic analyte groups detected in the Denver Formation groundwater and was the only well that tested positive for xylenes, toluene, ethylbenzene, and 1,1,2-trichloroethane.

DBCP was not detected in any samples from the Denver Formation groundwater in the WSA.

OCPs detected in groundwater from the Denver Formation in the study area included aldrin, endrin, isodrin, dieldrin, and dichlorodiphenyl- DDT. Summed average OCP hits did not exceed 0.46 ug/l in the study area (Figure WSA 2.4-4). Hits of isodrin were scattered in Section 33 in Zones 4 and 7. Isodrin concentrations tended to increase to the northwest across Section 33. Other OCP hits were detected in the northwest corner of Section 4 in zone 3 and 5 sands, near the west side of the north landfill (WSA-5) in zone 5 sands, near the railyard (WSA-1) in zone 3 sands, and in Section 9 in zone 2 sands. Isolated occurrences of endrin and aldrin were detected in Sections 4 and 3. Dieldrin was detected in two wells in Section 4 and DDT was reported in a well in Section 9 and a well in Section 4.

Samples from two Denver wells in the WSA were analyzed once for additional organic compounds. These wells were both located along the western edge of RMA. Denver Well 04009, which contained trichloroethylene at just above the CRL, toluene, and elevated levels of xylenes and ethylbenzene, also contained tentatively identified xylenes and substituted benzenes with a total concentration of greater than 1,000 ug/1. Tentatively identified volatile hydrocarbons in this well were measured at about 2,400 ug/1, caprolactam was measured at 940 ug/1 and other unknown compounds were found in concentrations of nearly 1,100 ug/1. Denver Well 33026, located among the wells of the Irondale Containment System, contained 100 ug/1 of nontarget organics as well. A summary of tentatively identified target compounds in groundwater from both wenver and alluvial wells is presented in Table WSA 2.4-3.

The ICP metals, mercury and arsenic generally were below the CRLs in the Denver formation water across the WSA. Noteworthy exceptions include Well 03003 located in the railyard (WSA-1), which contained elevated levels of zinc (104 ug/1), Chromium (21 ug/1), copper (25 ug/1), arsenic (7.2 ug/1) and mercury (0.25 ug/1) in one out of three sampling events. A well in the northwest quarter of Section 9 contained an average concentration of 17 ug/1 of chromium. One well nea. The North Landfill (WSA-5) contained 12 ug/1 to 15 ug/1 of arsenic in three out of four sampling events. Well 04009 in the northwest corner of Section 4 contained 15 ug/1 to 22 ug/1 of arsenic, as well as organic analytes. Other isolated occurrences of ICP metals, mercury and arsenic were generally at concentrations near to CRL.

Other inorganics, including chloride, fluoride, calcius, magnesium, sodium, potassium, and sulfate, varied in concentrations across the area. Sulfate varied from 58,000 ug/1 in Well 09003 to below detection limit in adjacent Well 09004, and from 55,000 ug/1 on the no theast side of the study area in Well 34009 to 17,000 ug/1 in Well 33032 and 57,000 ug/1 in Well 33016. Chloride, calcium, and sodium varied from below CRL to 36,000 ug/1; 4,500 ug/1 to 130,000 ug/1; and 37,000 ug/1 to 169,000 ug/1, respectively.

2.5 STRUCTURES CONTAMINANTS

On the basis of use history, all RMA structures were classified as to their suspected degree of contamination. Structures located in the WSA, their function, and their contamination classification are listed in Table WSA 2.5-1. Nine structures in the WSA were suspected to be contaminated; twenty-seven were suspected to be uncontaminated; and fifty were suspected to be contaminated but cleanable. Based on visual observation, twenty-eight structures were suspected to contain asbestos. No structures in the WSA contained process equipment at the time of the structures survey in the spring of 1987 (Ebasco, 1988u).

2.6 LIRBORNE CONTAMINANTS

2.6.1 Analytical Results

Twelve air quality monitoring stations were located at RMA during the Air Remedial Investigation (ESE, 1988f). Two air quality sampling stations were located in the WSA. Station AQI was located in the northwest corner of Section 4 and Station AQ7 was located approximately 1,000 ft east of the railyard (WSA-1, as shown in Figure WSA 2.6-1. Total suspended particulates (TSP), particulate matter less than 10 microns (Pm-10), asbestos, and metals were monitored at selected stations throughout RMA. Also, volatile and semivolatile organic compounds (VOs and SVOs), were evaluated during event monitoring near Basin A and Basin F. In the WSA, total suspended particulates (TSP) were monitored at both stations, and asbestos and metals were monitored at AQI. Table WSA 2.6-1 summarizes the analytical results at both stations. The occurrence and distribution of contaminants are discussed in the following sections.

2.6.2 Distribution of Total Suspended Particulates

At AQ1 the analytical geometric average concentration of TSP was 46.8 micrograms per cubic meter (ug/m 3) and at AQ7 the average concentration was 33.1 ug/m 3 . Both of these levels were below the federal and state secondary ambient air quality standard of 60 ug/m 3 .

Sixty individual TSP samples were collected at AQ1 and 55 samples were collected at AQ7. Individual 24 hour concentrations at AQ1 ranged from 7.1 to

143.3 ug/m³; the range at AQ7 was from 6.2 to 100.8 ug/m³. The maximum 24 hour concentrations at both stations were below the federal and state standard of 150 ug/m³.

The highest annual geometric average TSP concentration at RMA was 46.9 ug/m³, along the northwest boundary in Section 27, and the highest individual 24 hour TSP concentration at RMA was 151.4 ug/m³, south of South Plants. TSP levels at AQI were comparable to the highest values realized at other stations at RMA, whereas TSP levels at AQ7 were slightly less than the average TSP concentration observed across RMA.

2.6.3 Distribution of Asbestos

Airborne asbestos was monitored biweekly for one year at AQ1. None of the 31 samples collected and analyzed contained detectable levels of asbestos above 0.01 fibers per cubic centimeter (f/cc). This result was also noted at two other asbestos monitoring stations at RMA.

2.6.4 Distribution of Metals

Twelve samples were collected at AQI for analyses of ICP metals, arsenic, and mercury. Samples were collected during dry, windy weather when entrainment of metals would be expected. Arsenic and mercury were not detected above their CRLs, whereas cadmium, chromium, copper, lead, and zinc were detected above their CRLs. At AQI, cadmium levels ranged from 0.002 to 0.005 ug/m³, chromium ranged from 0.003 to 0.006 ug/m³, copper ranged from 0.044 to 0.358 ug/m³, lead ranged from 0.010 to 0.057 ug/m³, and one sample contained zinc at 10.2 ug/m³. All of these levels were within the range of results observed at 13 other stations on RMA during 16 sampling events. The highest levels for these elements during any single sampling event were: cadmium 0.017 ug/m³; copper 0.912 ug/m³; and lead 0.062 ug/m³.

2.7 BIOTA CONTAMINANTS

For more than three decades, contaminants have been detected in the tissues of plants and animals living at RMA. During that period, specific sites of contamination and specific groups of contaminants were examined, usually for selected RMA areas, and limited to particular concerns. None of these

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previously studied sites is within the WSA. A broader program to monitor contaminants in biota at selected locations on RMA and at off-post control sites was established during the late 1970s and continued into the 1980s.

A comprehensive biota assessment of all RMA contamination, both on-post and off-post, was initiated in 1985. This program was designed to determine what, if any, RMA contaminants remained in the environment and constituted hazards to the regional biota. Although the basic approach was to measure contaminant levels in tissues of animals living on-post in comparison to levels in off-post controls, valuable information was also obtained from samples collected by chance (e.g., raptors found dead on RMA and salvaged for analysis).

2.7.1 Contaminants of Concern

Compounds selected as potential contaminants of concern to biota met the following criteria:

- o Present in the RMA environment above ambient concentrations;
- o Rated at least moderately toxic; and
- o Volume and persistence information indicate that the chemical was present in the environment in sufficient quantity and/or for a long enough period of time to pose a hazard to biota.

Seven contaminants identified as major contaminants of concern based on their presence in the biosphere (e.g., in physical media within 20 ft of the ground surface), bioaccumulation potential, and areal extent (more than 5 acres), were selected for detailed pathways analyses. These contaminants were: aldrin and dieldrin, arsenic, DECP, endrin and isodrin, and mercury. Two major contaminants of concern were not analyzed in biological tissues. DECP, although toxic, does not bioaccumulate significantly, while isodrin, an analog of endrin, is converted to endrin by metabolic processes. Two additional contaminants, DDE and DDT, were analyzed because of their potential to cause adverse biological effects. The pathways approach was used to develop criteria levels in soil, water, and sediment for the protection of regional biota and to evaluate existing levels to determine the nature and extent of contaminant hazards to biota.

2.7.2 Sampling Completed in the WSA

Few samples were taken from this area because there were few sources of major contaminants in the westernmost sections of RMA. The prairie dog and bald eagle studies included parts of the WSA, but kestrel eggs and juvenile kestrel carcasses were the only samples taken from the area (Figure 2.7-1). Off-post control samples for the kestrel study were taken from a number of nesting boxes across northeastern Colorado. Details of the biological sampling effort on RMA are reported in the Biota Technical Plan (ESE, 1988e/RIC 88243RO5) and the RI for Biota (1989).

2.7.3 Contaminant Levels in Species Occurring in the WSA

Samples were prepared by homogenization and extraction procedures according to standard certified USATHAMA methods. GC/MS equipment was used for the detection of pesticides, while AA was used for the determination of arsenic and mercury concentrations. The CRL for each analyte is presented in Table WSA 2.7-1.

Contaminant levels in RMA wildlife species found in the WSA are summarized in Tables 2.7-2 and 2.7-3. While the samples of chance and the ring-necked pheasants were not taken from the WSA, most of these species spend some time in the area. The contaminant levels of the kestrel samples taken from the WSA are included in the values presented in Table WSA 2.7-2, but are discussed separately in Section 3.0. A complete table summarizing the contaminant levels found in all samples taken on RMA may be found in the RI for Piota (ESE, 1989).

2.8 OFF-POST CONTAMINANTS

Areas to the south, southwest, and west of the WSA have been investigated by EPA. These areas have been studied using a small number of surface water, soil, and sediment samples from the area directly south of the study area at the U.S. Post Office Denver Bulk Mail Center; a soil gas investigation to the west and southwest of the study area; and an extensive alluvial groundwater sampling program. No samples of Denver Formation groundwater have been analyzed. The areas in which these and other EPA investigations occurred are shown in Plate WSA 1.1-1, and the results that are pertinent to the WSA are

shown on the plates illustrating on-post soils and groundwater analytical results. The soil gas, surface water, soils, and groundwater analytical results are discussed below.

An off-post soil gas study was conducted southwest of the WSA in 1986 by the USEPA Field Investigation Team (E&E, 1986b). The location of the study area is shown on Plate WSA 1.1-1. PETREX soil gas samples collected for the study were analyzed for chloroform, DBCP, dichloroethylene, tetrachloroethylene, trichloroethylene, and trichloroethane. Tetrachloroethylene and trichloroethylene fluxes were detected in soil gas at several places within the off-post study area (Figure WSA 2.8-1). Areas where DBCP, trichloroethane, and chloroform were detected in soil gas are shown on Figure WSA 2.8-2.

In most cases the trichloroethylene flux locations were within areas of tetrachloroethylene flux; one area of tetrachloroethylene flux near the south-central portion of the soil gas study area did not show trichloroethylene flux, and two areas of trichloroethylene flux were not associated with the regions of tetrachloroethylene flux (Figure WSA 2.8-1).

The elevated trichloroethylene fluxes detected in the soil gas were aligned in two trends oriented north-northwest along the eastern and western sides of the soil gas study area. These trends were approximately parallel to groundwater flow directions as indicated by the generalized water table contour map for the area (Figure WSA 2.8-3). The soil gas trends appeared to be manifestations of groundwater contaminant plumes, and they indicated an upgradient source to the south or southwest of RMA.

In addition to these VHOs, DBCP was detected in the soil gas on the southwest side of the study area near East 48th Avenue and Ivy Street, and on the east side of the study area next to the Denver Engineering Operations Center. The area near East 48th and Ivy is adjacent to the old 48th and Holly landfill, a portion of the Sand Creek Industrial Site. The detected DBCP area next to the Denver Engineering Operations Center is upgradient from the WSA. No groundwater samples from this area contained detectable concentrations of DBCP.

Chloroform was detected in the soil gas mainly in an area near a gravel pit along Sand Creek, and trichloroethane was detected mainly in two small clusters; one associated with the principal chloroform occurrence, the other on the southern edge of the study area. Both the chloroform and trichloroethane occurrences were associated with areas of elevated trichloroethylene flux.

In 1986, the EPA conducted a separate investigation of the U.S. Postal Service Denver Bulk Mail Center and the Denver Engineering Operations Center, located within and immediately south of the southwest corner of the WSA, in Sections 9 and 16 (E&E, 1986a) (Plate WSA 1.1-1). Nine groundwater samples, two soil samples, one surface water sample, and one sediment sample were collected and analyzed for Hazardous Substance List metals and volatile and base/neutral/acid extractable organic compounds. Detection limits for the various analyses were not reported.

RMA target organic compounds detected by this study included 1,1,1-trichloroethane, 1,1-dichloroethane, trichloroethylene, tetrachloroethylene and trans-1,2-dichloroethane (all VHOs) in three groundwater samples; and 1,1-dichloroethylene, 1,1,1-trichloroethane, tetrachloroethylene, and toluene (a VAO) in one soil sample. Inorganics detected included chromium, copper, lead, zinc (ICP metals), and mercury in both soil samples and the sediment sample; mercury in two groundwater samples and the one surface water sample; and zinc in all the groundwater samples and the surface water sample. Of the inorganics only lead, mercury, and zinc were above their RMA indicator ranges in the one sediment and two soil samples. The EPA sampling locations at which target analytes were detected at significant levels are presented, along with the on-post data, in Plates WSA 2.1-1 through WSA 2.1-30, as appropriate.

The VHOs tetrachloroethylene, 1,1-dichloroethylene, and 1,1,1-trichloroethane and the VAO toluene were detected in a composite surface soil sample collected from near the northeast corner of the Bulk Mail Center. Lead and zinc were above their Phase I indicator ranges in a soil sample collected from at the northern boundary of the Bulk Mail Center and in a sample collected from south

of the southeast corner of the Denver Engineering Operations Center. The sediment sample collected downgradient from the mail center contained lead and sinc well above their indicator ranges.

Groundwater samples from numerous wells were analyzed in the off-post RI study area, including several immediately adjacent to RMA. In off-post groundwater sampling conducted between December 1985 and March 1987, several organic compounds were detected that were target analytes in the on-post RI. Of the VAOs (Plate WSA 2.4-3), toluene was most common in the off-post area, whereas benzene was more common on-post. The off-post toluene and other aromatic concentrations did not exceed 10 ug/1. VHOs were more numerous than aromatics in the off-post area (Plate WSA 2.4-1). Most of the halogenated organic compounds that were target analytes in the on-post Phase I investigation (1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chlorobenzene, chloroform, methylene chloride, tetrachloroethylene, and trichloroethylene) were detected in the off-post area shown in Plate WSA 2.4-1. As in the on-post area, trichloroethylene was at a higher concentration than the other compounds. Trichloroethylene concentrations reached 1,800 ug/1 in the off-post area to the south of the mapped area and reached 120 ug/1 off-post in the southwest part of the mapped area. Other relatively high trichloroethylene concentrations were measured along a sinuous north trend west of the RMA boundary.

Groundwater downgradient from a possible landfill in Stapleton International Airport near Sand Creek contained slightly elevated levels of dichloroethane, trans-dichloroethylene, tetrachloroethylene, trichloroethylene, and other solvents. A well near a Stapleton Airport runway contained a 66 ug/l concentration of trichloroethane.

Limited sampling to the south of the study area indicated that some of these VHOs are present in alluvial groundwater upgradient of RMA at least, as far south as the Bulk Mail Center and Denver Engineering Operations Center, but the available data are insufficient to define the trends of these occurrences.

No OCPs or DBCP were detected in the off-post area either along the west boundary of RMA or in the area downgradient from RMA in the northwest part of the mapped area (Plates WSA 2.4-3 and 4). Other compounds detected in the off-post area were compounds that were not target analytes in the on-post RI. The distribution of these other compounds in the off-post area is described in a separate report (CDM, 1987).

Areas farther to the west and southwest of RMA also contained organic compounds and metals that were target analytes in the on-post RI (CDM, 1986). These areas are discussed below by individual site (Plate WSA 1.1-1); however, chemical concentrations are not presented. Wells downgradient from the Sand Creek industrial site have been sampled on several occasions by the Colorado Department of Health, the EPA Field Investigation Team, and Burlington Northern, and have been found to contain 1,2-dichloroethane, benzene, dichloroethylene, trans-dichloroethylene, trichloroethane, trichloroethylene, and tetrachloroethylene. Numerous pesticides were also found. Cadmium, lead, arsenic, and mercury have also been measured at elevated levels. Trace concentrations of dichloroethane, trans-dichloroethylene, trichloroethylene, acetone, and phenols were found in groundwater samples taken from wells downgradient from the underground storage tanks at East 56th and Quebec. Petroleum products were found in 1985 to 1986 in seeps along Sand Creek and in a groundwater plume stretching from either side of Sand Creek to the intersection of East 59th Avenue and Holly Street.

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 1 of 42

			WSA-1.	WSA-1. Reliverd		
Total Borings Total Samples	·	Phase I Analyses 27 95			Phase II Analyses	•
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (lug/g)	CRL Range (ug/oy/2	Frequency of	Range	GPL Spage
Volatify Halogeraled Organics 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane •	\$9/0	BCRL	0.3-0.4	6/0	BCRL	2/6/6n) 0 088
1,1,2-Trichlorochane 1,2-Dichlorochylene	0/65	BCRL BCRL	0.3* 0.3-0.4 0.3-2	6/0	BCRL	0.26
Chlorobenzene Tetrachloroethylene	1/65 0/65 1/65	0.3 BCRL	0.3	\$ 6 6	BCRL BCRL	0.26 0.12
Trichloroethylene Trichloropropene	59/0 -	0.4 BCRL	0.3 0.3-0.5 0.3*	6/0 -	BCRL	0.27 0.14
Methylene Chloride	15/65	1.5	0.7-2	6/0	BCRL	0.35
Yolaile Hydrozarbons 2-Butoxychanol * 4-Hydroxy-4-methyl-2-pentanone * Bicyclobeptadiene Dicyclopentadiene Methyicyclobexane * Methylisobutyl Ketone		BCRL BCRL	0.3* 0.3* 0.3-0.4 0.3-0.7 0.3*	e.e e.e	BCRL BCRL BCRL	0.3* 0.30-0.40 0.30-0.70 0.30-0.70
Volatile Aromatic Organics Benzene Ethylbenzene m-Xylene Toluene	1765 0765 0765 0765	0.6 BCRL BCRL BCRL	0.3 0.3-0.4 0.7-0.8 0.3	\$\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&	BCRL BCRL BCRL BCRL	0.30-0.70 0.85 0.16 0.26 0.19

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram. 6/31 //

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 2 of 42

	į D.	hees Assissa	WSA-1.	WSA-1. Reliverd		
Total Samples	- (27 27 35			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µq/d)	CPL Range	Frequency of	23 Range	GR.
Mustard - Agent Related Chloroacetic acid	\$80			Detections	(E/6rl)	(µg/g)/2
Organophosphorous Compounds, GB-Arent Related	3	BCKE	0	9/0	BCRL	36
Phosphoric acid, tributyl ester •	· ·	•	į			
DBCP	96/0	BCR1	0.3	•	•	0.3•
Polyniclear Aronatic Hydrocarbons			0.0030-0.14	2/15	0.38-1.3	0.0050-0.014
Fluoranthene * Pyrene *	3/95	0.3-0.9	0 3•			
Methyl naphthalene	56/I ·	0.7	* 6 6 6 6 6	• •		0.3•
Semivolatile Halogenated Organics			r.	•	•	0.3•
Hexachlorocyclopentadiene Tetrachlorobenzene	0/95	BCRL	0.3-0.6	, 90	·	0.3*
Organochlorine Pesticides		•	0.3			0.3
Aldrin Dicktrin	0,95	BCRL	0.3	ž	ć	
Endrin Isodrin	0,95 8,90 8,90 8,90	BCRL BCRL	0.3-0.5	388	0.5-7.0 BCRL	0.30 0.30 0.30-0 3 0
Arsenic (IR=CRL-10)	1/95			9/0	BCRL	0.30
BCRL = Below Certified Reporting Limit.			2.5-5	Not Analyzed		

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 3 of 42

			WSA-1. Reliverd	Reliverd		
Total Borings Total Samples		Phase Analyses 27 95			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (μg/g)	CPL Flange (ug/n/2	Frequency of	Range	GAL Bange
Mercury (IR=CRL-0.1)	2/95	0.070-0.2	0.050-0.060	Not Analyzed	(b/5n)	2,(66m)
ICP Metals Cadmium (IR=1-2) Chromium (IR=25.40) Copper (IR=20.35) Lead (IR=25.40) Zinc (IR=60-80)	5/95 41/95 57/95 20/95 95/95	0.97-1.4 6.5-21 5.6-19 11-24 11-190	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13	Not Analyzed		

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tertainely identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

WSA 2.1-1/WSA-1/Rev. 4/26/89

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA Page 4 of 42

	,		WSA-2. West Landfill	St Landfill		
Total Borings Total Samples	- ,	Phase i Analyses 8 46			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections ^{/1}	Range (µg∧≀)	CRL Range (uq/q)/2	Frequency of	Range	CAL Pange
1,2-Dichloroethylene 1,1,2,2-Tetrachloroethane 1,1,1,1-Trichloroethane	0/38 2/38 0/38		0.3-2	1/35 2/35	(149/9) 5.9 0.60-2.0	(µ9⁄q)/2 0.26 0.3•
1,1,2-1 nchlorocthane Carbon Tetrachloride Chlorobenzene Tetrachlorocthuling	0/38 0/38 0/38	BCRL BCRL BCRL	0.3-0.4 0.3 0.3	0,35 0,35 0,35	1.2 0.43 BCRL	0.088 0.026 0.12
Trichloropropene •	2738 0/38	0.4-0.6 BCRL -	0.3 0.3-0.5 0.3*	3/35 2/35	0.26-0.98 0.79-25	0.30 0.27 0.14
Methylene Chloride	0/38	BCRL	0.7-2	0/38	BCR	0.35
Yolatic Hydrocarbons 2-Butox yethanol • 4-Hydroxy-4-methyl-2-pentanone • Bicycloheptadiene Dicyclopentadiene Methylcyclohexane • Methylcyclohexane •	1738 - 0738 0738 - 0738	0.4 BCRL BCRL	0.3* 0.3* 0.3-0.4 0.3-0.7 0.3* 0.3-0.7	023 023	BCRL BCRL	0.3* 0.30-0.40 0.30-0.70 0.3*
Yolatike Aromatic Organica Benzene Ethylbenzene m-Xylene Toluene	0/38 0/38 0/38 0/38	BCRL BCRL BCRL BCRL	0.3 0.3-0.4 0.7-0.8 0.3	0/23 0/23 0/23 0/23	BCRL BCRL BCRL BCRL	0.30-0.70 0.30 0.30-0.40 0.70-0.80 0.30

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tertainely identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 5 of 42

			WSA-2. West Landfill	t Landill		
Total Borings Total Samples	Phase	se i Analyses 8 46			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/g)	CPL Range (uc/o/ ²	Frequency of	Range	CRL.
Organosulfur Compounds Mustard - Agent Related Chloroacetic acid	0/46	BCRL	40	0.25	(Mary)	, (6/6 1)
Organsphorous Compounds. GB-Agent Related Phosphoric acid tribund acres						8
riceptuate acid, minusyl caler	•	•	0.3•	•	•	0.3•
TSEC.	0/46	BCRL	0.3	0/25	BCRL	0.30
Existical Literation Hydrocarbons Fluoranthene • Pyrene • Methyl naphthalene •			03. 03. 03.	202	0.70-20	0.3* 0.3*
Semivolatile Halogenated Organics Hexachlorobutadiene • Hexachlorocyclopentadiene Tetrachlorobenzene •	. 0/46	BCRL	0.3* 0.3+0.6 0.3*	. 1/25	4.7	0.3° 0.30-0.80 0.3°
Organochkorine Pesticides Akdrin Dieldrin Endrin Isodrin	0/46 0/46 0/46 0/46	BCRL BCRL BCRL	0.3 0.3 0.3-0.5 0.3	1,25 4,25 1,25 0,25	3.1 13-11 6.7 BCRL	0.30 0.30 0.30 0.30
Arxenic (IR=CRL-10)	0/46	BCRL	2.5-5	1/25	23	2.5-5.0
DC-14. Below Certilled Heporting Limit.						

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

2

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soits and Sediments Analytical Results in WSA Page 6 of 42

			WSA.2 West 1	***************************************			
Total Borings Total Samples	Pha.	Phase I Analyses 8 46			Phase # Analyses		
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (119/g)	CR. Range (uc/o/2	Frequency of	Per ye	CRL. Plange	
Mercury (IR=CRL-0.1)	0/46	BCRL	0.05-0.06	KAN	(क्रिक्त)	2/6/6 / 0)	
ICP Metals)	7	0.264.0	900-500	
Cachnium (IR=1-2) Chromium (IR=25-40)	0/46	BCRL	0.66-0.74	302	•		
Copper (IR=20-35)	33/46	7.1-30	5.2-6.5	21/25	9.3-140	0.66-0.74	
Lead (IR=25-40) Zinc (IR=60-80)	14/46	11-33	8.4-13	19/25	59-1930	4.74.9	
	44/46	11.93	8.7-9.5	25/25	12-700 14-1300	8.4-13	

Below Certified Reporting Limit. Indicator Range.

Micrograms per grum.

2

Fraction represents the board number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Linit (CFLL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA, Page 7 of 42.

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	ļi		WSA-3. East Landfill	IL Landfill		
Total Borings Total Samples	z	Phase Analyses 17 17 98			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/q)	CPL Range (uc/o/2	Frequency of	Range	CA.
Yolalis Haloschild Organics 1,2-Dichloroethylene 1,1,2,3-Tetrachloroethane	0/88	BCRL	0.3-2	0,48	BCRT.	2/4/6/1)
1,1,1-Trichlorocubane	2/88	0.5-0.8	0.3-0.4	0/48	3C81	0.30
Carbon Tetrachloride	0/88 0/88		0.3-0.4	0/48	BCRL	0.026
Unkorocenzene Terachkorocehyiene	0/88	BCRL	0.3	0/48	BCRL BCRL	0.12 S
Trichloroethylene Trichloropropene *	1/88 1/88 1/88	7-70 1 0.4	0.3-0.5	0/48 0/48	BCRL	0.27
Methylene Chloride	4/88	0.8-2	0.7-2	1/48	. «	0.3•
Yolntik Hydrocarbans 2-Butoxycthanol • 4-Hydroxy-4-methyl-2-pentanone • Bicyclohegiadiene Diewdonentaliane	80	BCRL	0.3* 0.3* 0.3-0.4	, , 8	: <u>ē</u>	0.3*
Methylisobulyl Ketone	1/88 1/88	BCRL	0.3-0.7 0.3* 0.3-0.7	\$ · &	BCRL	. 20 0 0 24 0 4
Yelstik Aronatic Organica Benzene Ethylbenzene m-Xylene Tolucze	0/38 0/58 0/38 2/88	BCRL BCRL BCRL 0.3	0.3 0.3-0.4 0.7-0.8 0.3	0/48 0/48 0/48	BCRL BCRL BCRL	0.30 0.30-0.40 0.70-0.80 0.30

Below Certified Reporting Limit.

Micrograms per gram.

2

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conductad on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used,

Certriad Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given for number of samples is not.

WSA 2.1-1/WSA-1/Raw, 428/89

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 8 of 42.

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Total Resince	•	Phase Analyses	WSA-3. East Landill	at Lendilli		
Total Samples	•	17 88			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Cetections ^{/1}	Range (4949)	CRL Range flingly?	Frequency of	Rarnge	CR. Pange
Austral - Arch Related Chloroacetic acid	05/0	BCRL		Celections:	(B/Brl)	5/6/6 1 1)
Organishopherous Compounds, GB-Arent Related			}	S	BCRL	38
Phosphoric acid, tributyl ester		•				
DBCE	0/88	BCRL	0.3			0.3•
Edynickar Aromatic Hydrocarbons			}	, \$	BCRL	0.30
Fluoranthene • Pyrene • Methyl naphthalene •	3/50 1/50	0.3-0.9	0.3* 0.3*	• •	•	0.3•
Seminal wife Hallman	•	ı	0.3•	•	• •	0.3• 0.3•
Hexachlorobuladiene • Hexachlorocyckypentaliene Teirachlorobenzene •	05/0	BCR.	0.3• 0.3-0.6 0.3•	<i>U</i> 10	0.40 BCRL	0.30
Organochkeine Prziekieg Aktria	Š	ļ	}	Not Analyzed	•	0.3•
Dieldrin Englin	0.50	BCRL BCRL	0.3			
Isodrin	0,50	BCRL	0.3-0.5			
Arsenic (IR-CRL-10)	0/53	BCRL	25.5	Ş		
BUR Bulow Certilied Reporting Limit.				à	BCRL	2.5-5.0

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Indicator Range.

Micrograms per gram. \$~

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certried Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soits and Sediments Analytical Results in WSA. Page 9 of 42.

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			WSA-3. East Landfill	it Landliii		
Total Borings Total Samples	Ē	Phase i Analyses 17 98			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Datections/1	Range (µg/g)	CPL Renge (µg/g)/2	Frequency of Detections ^{/1}	Range (uo/n)	CRL. Range
Mercury (IR=CRL-0.1)	0/53	BCRL	0.05-0.06	<i>L</i> 00	BCRL	0.05-0.06
KP Metals Cadmium (R=1-2) Chromium (R=25-40) Copper (R=20-35) Lead (R=25-40) Zinc (R=60-80)	8,98 60,98 62,98 45,98 96,98	1-1100 7.8-27 5.7-170 11-140 12-300	0.66-0.74 \$.2-6.5 4.7-4.9 8.4-13	71 67 67 67 77	1.8 9.5-18 5.8-18 11-16 20-61	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13 8.7-9.5

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram. \$~

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection finit which varies among laborateries conducting analyses.

There is no CRL for tentialively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soits and Sediments Analytical Results in WSA. Page 10 of 42

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Total Borings	Pha	Phase I Analyses	WSA-4. Open Storage Yard	Storage Yard		
Total Samples		15 103			Fnase II Analyses 12	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/q)	CPL Range (un/n/2	Frequency of	Range	CPE.
1,2-Dichloroethylene 1,2,2-Tetrachloroethane	61/0	BCRL	0.3-2	Og6	(G/6rl)	(µg/g)/2
1,1,1-Trichlorochane 1,1,2-Trichlorochane Carbon Terrashloide	6L/0 6L/0	BCRL BCRL	0.3• 0.3-0.4 0.3-0.4	. 0/36	BCRL	0.2 6 0.3* 0.088
Chlorobenzene Tetrachloroethylene	079 079 976	BCRL BCRL	0.3	0/36 0/36 0/36	BCRL BCRL BCRL	0.26
Trichloroethylene Trichloropropene	6170	BCRL	0.3 0.3-0.5 0.3*	2/36 1/36	0.41-0.44	0.27 0.14
Methylene Chloride	1779	2	0.7-2	176	, 6	0.3
Yolatik Hydrocarbons 2-Butoxverhanol *					0.4	0.70-2.0
4-Hydroxy-4-methyl-2-pentanone •		1 1	0.3	• (•	0.3*
Dicyclopentadiene Methylogick	0/93 0/93	BCRL BCRL	0.3-0.4	0/36	BCRL	0.30-0.40
Methylisobutyl Ketone	6779 6779	0.2 BCRL	0.3-0.7	0°-0	ECEL.	0.30-0.70 0.3*
Valuile Amnatic Organics				900	BCRL	0.30-0.70
Benzene Ethylbenzene m-Xylene	0779 079 079	BCRL BCRL BCRL	0.3-0.4	0/36 0/36	BCRL	0.30
Toluene	3779	0.4-1	0.7-0.8	0/36 0/36	BCRL	0.70-0.80 0.30

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram. 16/2 7/2

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used. Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

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Table WSA 2.1-1. Summary of Solits and Sediments Analytical Results in WSA. Page 11 of 42

	ı		WSA-4 Onen	WSA-4 Onen Storens		
Total Borings Total Samples	, 	Phase I Analyses 15 103			Phase II Analyzes	
Analytical Groups and Analytes Delected	Frequency of Detections ^{/1}	Renge (µg/q)	CRL Range (uq/q)/2	Frequency of	Range	CAL Range
Mustard - Agent Related Chloroscetic acid	0/93	BCRL	40	Not Analyzed	(5) Bill	, (ng/g)
Organophosphorous Compounds, GB-Agent Related, Phosphoric acid, tribusyl ester •	•	,	0.3•			
DBCP	61/0	BCRL	0.3	· 920	•	0.3*
Polymackear Anomatic Hydrocarbons Fluoranthere • Pyrene • Methyl naphthalene •		,	0.3• 0.3•	Not Analyzed	•	0.40-2.0
Semivolatile Halogenated Organica Hexachlorobutadiene • Hexachlorocyclopentadiene Tetrachlorobenzene •	. 0/93	BCRL	0.3-0.6 0.3-0.6 0.3•	Not Analyzed		
Organochlorine Posticides Addrin Dieldrin Endrin Isodrin	0,93 0,93 0,93 0,93	BCRL BCRL BCRL BCRL	0.3 0.3 0.3-0.5 0.3	Not Analyzed		
Arsenic (IR=CRL-10) BCRI = Rebus Cartifad December 1::-	2/93	3.2	2.5-5	Not Analyzed		
IR - Indicator Rance						

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentiatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 12 of 42

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	1:		WSA-4. Open Storens Varia	Stores energy		
Total Borings Total Samples	e aud	ae i Analyses 15 103			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/g)	CPL Range (µq/q)/2	Frequency of	S4 Range	CTL. Pange
Mercury (IR=CRL-0.1)	3/93	0.067-0.43	0.05-0.06	. Succession	(B/Brl)	5/6/δη)
ICP Metals				6/1	0.052	0.05-0.06
Cadmium (IR=1-2) Chromium (IR=25-40)	0/93	BCRL	0.66-0.74	81/0	Ę	,
Copper (IR=20-35)	62/93	6.1-45	5.2-6.5	15/18	8.5.48	6.74
LC3d (IR=23-40) Zinc (IR=60-80)	26/93	11-31	8.4-13	17/18	63-63	4.74.9
	91/93	11-130	8.7-9.5	81/81	12-37 22-180	8.4-13 8.7-9.5

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram. 6/01 16/01

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for terretively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 13 of 42

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	li		WSA-5. North Lendill	th Lendill		
Total Borings Total Samoles	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	se i Analyses 14			Phase II Analyses	
		B			73	
Analytical Groups and Analytes Detected	Frequency of	Range	CRL Range	Frequency of	Range	27. Bros
Volatile Halogenated Organics	Detections	(b/6rl)	2/(6/6 4)	Detections/1	(pgq)	Z/(6/βπ)
1,2-Dichlorochylene	0/74	BCRL	0.3-2	0/49	1000	
1,1,4,4-1 cuachiorocinais	5/74	0.2-2	0.3	0/29	BCRL	0.26
1.12-Trichlowethan	4770	BCRL	0.3-0.4	1/59	0.80	96.0
Carbon Tetrachloride	4,70	ECR.	0.3-0.4	65/0	BCRL	0.26
Chlorobenzene	7170	BCKL	0.3	0/29	BCRL	0.12
Tetrachlorocthylene	1774	ore 03	0.3	1/59	0.40	0.30
Trichloroethylene	0/74	BCR1	0.0	1/59	0.30	0.27
Trichloropropene *	. •		0.3•	6C/O	BCRL	0.14
Machania (201)			;	•	•	0.3•
Mcmylene Chloride	4/74	2-800	0.7-2	•	•	0.20.0
Yolatile Hydrocarbons						
2-Butoxyethanol •	•	•	•			
4-Hydroxy-4-methyl-2-pentanone •	•		0.3	•	•	0.3•
Bicycloheptadiene	0/74	BCRL	0.3-04			0.3
Dicyclopentadiene	1/88	_	0.3-0.7	700	2.0	1.1
Methylisobuvi Kerone Methylisobuvi Kerone	1/74	- 8	0.3	1/26	3 8	0.45
	* 15	BCKL	0.3-0.7	97/0	BCRL	20.0
Volatile Aromatic Organics						
Benzene	0/74	BCRL	03	0/60		
Ethylbenzene	0/74	BCRL	0.3-0.4	65/0		0.30
m-Aylene Toltione	0/74	BCRL	0.7-0.8	0/29	E E	0.30-0.40
	0//4	BCRL	0.3	0/20	BCRL	0.30
BCRL . Babw Certified Becording Limit						

Below Certified Reporting Limit. 828

Indicator Range. Œ

Micrograms per gram. 10/g

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Lknit (CRL), or detection linit which varies among laboratories conducting analyses.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not. 8.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 14 of 42

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	10	- -	WSA-5. North Landfill	th. Landfill		
Total Borings Total Samples		68 88			Phase il Analyses	
Analytical Groups and Analytes Detected Organization Communication	Frequency of Detections ^{/1}	Range (µg/g)	CPL Range (ug/c)/2	Frequency of	Range	CPL. Range
Musiard - Agent Related Chloroacetic acid	88/0	BCRL	04	Catachons	(E/Brl)	(µg/q)/2
Organophosphorous Conjounds, OB-Agent Related Physical Society			?	ò	BCRL	36
DBCP	Not Analyzed	•	0.3*	•	•	0.3*
Polymelear Aromatic Hydrocarbons	•			Not Analyzed		
Fluoranthene * Pyrene * Methyl naphthalene *			0.3* 0.3* 0.3*	71/1 71/0	8.7 BCRL	0.3*
Semivolatile Halogenated Organics Hexachlorobutadiene * Hexachlorocyclopentadiene	. 088	. 2	0.3		2.0-4.0	0.3•
Tetrachlorobenzene • Organochlorine Pesticides	! .	•	0.3-0.6 0.3*	0/17	BCRL 1.0	0.30-0.60 0.3*
Akdrin Dieldrin Endrin Isodrin	0/88 0/88 0/88 0/88	BCRL BCRL BCRL	0.3 0.3 0.3-0.5 0.3	1/17 1/17 0/17	2.0 4.0 BCRL	0.30 0.30 0.30-0.50
Arsenix (IR=CRL-19) BCRL Below Certified Reporting Limit.	2/88	2.7-4.2	2.5-5	2/16	12-18	0.30 2.5-5.0

Indicator Range.

Micrograms per gram. 6/6ri

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

8.

Certified Reporting Limit (CFL), or detection limit which varies among laboratories conducting analyses.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 15 of 42

	l		WSA-5. North Landilli	th Landfill		
Total Borings Total Samples		rnase i Analyses 14 88			Phase II Analyses	
Analytical Groups and Analytes Delected	Frequency of Detections ^{/1}	Range (µq/q)	CPL Range (uo/o/2	Frequency of	Range	Range
Mercury (IR=CRL-0.1)	0/88	BCRL	0.050-0.060	2/16	(6/57)	(µ9/9/ ²
ICP Metals				7	0.14-4.1	0.03-0.06
Cadmium (IR=1-2)	1/88		AC 0.340	741	į	
Corres (18×25-40)	21/88	6-24	\$ 2.6 \$	1/10	5.1	0.66-0.74
Copper (IN=20-33)	53/88	5.9-35	47.40	91/6	9.1-1800	5.2-6.5
7: (IN = 23 -40)	19/88	11-30	9.4.13	2/10	6.9-9700	4.74.9
ZINC (IK=60-80)	79/88	11-97	8 7.0 \$	91//	12-2000	8.4-13
		•	7.7.7.	10/10	18-1300	8.7-9.5

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram. 5/6r

2

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all stanting. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical multiple thas been used.

Certified Reporting Lknit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tertatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the methor used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 16 of 42

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	å		WSA-6. Motor Pool	otor Pool			
i otal Borings Total Samples		36 165			Phase II Analyses/3	3	1
Analytical Groups and Analytes Detected Volatic Halogenated Organics	Frequency of Detections/1	Range (µg/q)	СРЕ Рапре (шg/g)/ ²	Frequency of Detections/1	Range	CRE Range	1
1,1,2,2-Tetrachloroethane	0/135	BCRL	0.3-2			76/94	
1,1,2-Trichlorocthane Carbon Tetrachloride	0/135 0/135 0/135	BCRL BCRL	0.3-0.4 0.3-0.4				
Chlorobenze.se Tetrachloroethylene Trichloroethylene	0/135 3/135	BCRL 0.4-1	0.3				
Trichloropropene • Methylene Chloride	1/135	2 0.2	0.3-0.5				
Volatile Hydrocarbons 2-Butoxverhanol •	6177	m	0.7-2				
4-Hydroxy-druchyl-2-pentanone • Bicyclokeptadiene	1/135	BCRI	0.3*				
Methylisyclohexane • Methylisobutyl Ketone	0/164 2/135 0/135	BCRL 2-10 BCRL	0.3-0.7 0.3*				
Yolalik Aranatic Organics Benzene Ethylkanene	0/135	BCRI					
m-Xylene Toluene	1/135 1/135 2/135	40	0.3-0.4 0.7-0.8				
PCBI - Bolom Codilli de	4:00	47	0.3				

Below Certified Reporting Limit. Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used,

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

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Phase if program not conducted.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 17 of 42

			WSA-6. Motor Pool	Mor. Pool		
Total Borings Total Samples	Phase	Phase I Analyses 36 165			Phase il Analyses/3	
Analytical Groups and Analytes Detected	Frequency of Detections ^{/1}	Range (µg/g)	CPL Range (uq/q)/2	Frequency of	Range	GAL .
Organosulfur Compounds Mustard - Agent Related Chloroacetic acid	0/163	BCRL	40		(&Gr)	(µ9/3)/2
Organozulfur Compounds Herbicide - Related Benzothiazole	1/163	0.3	03*			
Organsphorous Compounds. GB-Agent Related. Phosphoric t.cid, tributyl ester •			!			
DECE	1/177	0.01	0.30			
Polyme. Est. Aromatic Hydrocarbons Fluoranthene • Pyrene • Methyl naphthalene •	5/163 6/163 8/163	1-30 0.5-20 4-200	000 003 003 003			
Semiyolatike Halogenated Organica Hexachlorobutadiene • Hexachlorocyclopentadiene Tetrachlorobenzene •	0/163	BCRL	0.3* 0.3-0.6 0.3*			
GCRL = Below Certified Reporting Limit.						

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

86.

Phase if program not conducted.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solls and Sediments Analytical Results in WSA. Page 18 of 42

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	•		WSA-6. Motor Pool	for Pool		
Total Samples Total Samples	- 1	Phase I Analyses 36 165			Phase II Analyses/3	
Analytical Groups and Analytes Detected Organicallicing Posticides	Frequency of Detections/1	Range (µg/g)	CPL Range (µg/g) ⁷²	Frequency of Detections/1	Range (uo/o)	CR. Range
Aldrin Dieldrin Endrin Isodrin	2/163 0/163 0/163 0/163	0.9-3 BCRL BCRL BCRL	0.3 0.3 0.3-0.5 0.3		Te. F.	78.64
Arsenic (IR=CRL-10)	16/152	2.6-27	2.5-5			
Mercury (IR=CRL-0.1)	14/152	0.057-0.38	0.050-0.060			
ICP Metals Cadmium (IR=1-2) Chromium (IR=25-40) Copper (IR=20-35) Lead (IR=25-40) Zinc (IR=60-80)	13/152 62/152 100/152 37/152 146/152	1.4-30 6.5-490 5.7-220 9.8-2000 11-2300	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13 8.7-9.5			

Below Certifled Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction repressints the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used. Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. Phase II program not conducted.
There is no CPL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

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Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 19 of 42

Total Borings Yotal Samples	AP	Phase (Analyses 0	a. Senitary Sewi	WSA-72, Sanitary Sewer - Internal Sediment es Phae	Phase Il Analyses/3	/3	_
Analytical Groups and Analytes Detected Volume Halbornand Desay.	Frequency of Detections ^{/1}	Range (µg/д)	CRL Range (ug/q/2	Frequency of	Range	Parge	
1,2-Dichlorochylene	6/3	BCRL	0.3-2		(\$\frac{1}{2}\frac{1}{	(ng/g) ^{/2}	1
1,1,1-Trichloroethane	· 00	BCRL	0.3• 0.3-0.4				
Carbon Tetrachloride Chlorobenzene	200 E	BCRL BCRL	0.3-0.4				
Tetrachlorochylene Trichlorochylene Trichlorochylene	60 60 60 60 60	BCRL BCRL BCRL	0.3 0.3 0.40				
Methylene Chloride	. No Asia	•	0.3				
	INOR Astallyzed						
Yolatile Hydroxarbans 2-Butoxyethanol • 4-Hydroxyethal-2-methyl-2-methyl-3-	•	•	0.3				
Bicycloheptadiene Dicyclopentadiene	, <u>6</u>	BCRL	0.3•				
Methylisobutyl Ketone Methylisobutyl Ketone	e/o • 0/3	BCRL	0.3-0.7 0.3* 0.3-0.7				
Olatile Aromatic Organics Benzene	Not Analyzed		}				
Ethylbenzene m-Xylene Toluene							

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

Phase II program not conducted.

There is no CRL for lentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soits and Sediments Analytical Results in WSA. Page 20 of 42

		WSA-7s.	Senitery Sewer	WSA-7a, Sanitary Sewer - Internal Series	4	
Total Borings Total Samples	Phase	Phase I Analyses 0** 3			Phase II Analyses/3	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/g)	CRL Range (µg/g) ^{/2}	Frequency of Detections/1	Range	Party.
Organosulfur Compounds Mustard - Agent Related Chloroacetic acid	2/3	07-09	04		(K/5rl)	2,660)
Organochosphorous Compounds. GB-Agent Related. Phosphoric acid, tributyl ester •	,					
DBCP	6/3	BCRL	0.3			
Polynuckar Aromatic Hydrocarbons Fluoranthene • Pyrene • Methyl naphthalene •		, , ,	0.3			
Semivolatile Halogenated Organica Hexachlorobutudiene * Hexachlorocyclopeniadiene Tetrachlorobenzene *	. 003	BCRL	0.3* 0.3-0.6 0.3*			

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratorios conducting analyses.

Phase II program not conducted.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA, Page 21 of 42

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		WSA	7s. Sanitery Sew	WSA-7s. Sanitary Sewer - Internal Sediment	.	
Yotal Borings Total Samples	Pha	Phase I Analyses 0		чd	Phase II Analyses/3	
Analytical Groups and Analytes Detected Occurs blome Pesticutes	Frequency of Detections/1	Range (µg/ŋ)	CPL Range (ug/g)/2	Frequency of Detections ^{/1}	Range (µg/g)	CRL Range
Aktin Dicktin Endrin Isodrin	8888	BCKL BCKL BCKL BCRL	0.3 0.3 0.3-0.5			
Arsenic (IR=CRL-10)	. 6/1	4.8	25.5			
Mercur AR=CRL-0.11	2/3	0.25-0.98	0.05-0.06			
KT: Metals Cadmium (IR=1-2) Chromium (IR=25-40) Copyer (IR=20-35) Lead (IR=25-40) Zinc (IR=40-30)	2,2 2,2 2,2 2,2 2,2 2,2 2,2 2,2 2,2 2,2	1.8 22-81 35-500 99-700 671-78	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13			

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on sill samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. **66.**

Phase II program not conducted.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 22 of 42

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			WSA-7b, Sanitary Sewer . Surramation Com-	S. C. L. C.		
Total Borings Total Samples	Phase	Analys 3 6		ouising a like	Phase II Analyses/3	13
Analytical Groups and Analytes Detected Volatile Haltwenson Commission Commis	Fraquency of Detections/1	Range (µg-tq)	CRL Range	Frequency of	Range	8
1,2-Dichlorochylene	95	BCRL	0.3.2	Detections/1	(6/6 ग)	Z/(5/5rl)
1,1,1-Trichlorocthane	9/0	BCRL	0.30			
Carbon Terrachionide	8 8	BCR!	6.3-0.4			
Terrachlorechylene	88	BCKL	0.3		•	
inchlorogropene •	250	BCRL BCRL	0.3 0.3-0.5			
Methylme Chloride	38		0.3•			
Yelvik Hybrakton		•	7·/·7			
4-Hydroxy-4-methyl-2-pentanone	• ,	•	0.3•			
Bicycloheptatiene Dicyclonentatiene	. 20	BCRL	0.3•			
Methykyclobecane	ž	BCRL	0.3-0.7			
Methylisobuyi Kenone	92	BCRL	0.3*			
Volatile Aromatic Organica						
Ethybenzene	88	BCRL	0.3			
m-Xykae Toluene	\$\$\$		0.3-0.4			
BCPL - Selow Certified Reporting Linit		BCKL	0.3			

Indicator Range

Micrograms per gram. \$~

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses, C ₽.

Phase it program not conducted.

There is no CRL for tantainsly identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

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Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 23 of 42

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		WSA-7	b. Sanffary Sewe	WSA-7b. Sanitary Sewer - Surrounding Sons		
Total Borings Total Samples	Phase	Phase I Analyses 3 6			Phase il Analyses/3	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Plange (µg/g)	CPL Range (ua/o)/2	Frequency of	Range	CRE.
Organosulfur Compounds Musiand - Agent Related Chloroecetic acid	99	BCRL	40		(5/64)	> (&ⅈ)
Overexplassional Compounds, GB-Agent Relayed Phosphoric acid, triburyl ester •		ı	3,6			
DBCP	Not Analyzed		}			
Phyraxicar Ammaric Hydrocartions Fluoranthene • Pyrene • Methyl naphthalene •			0.3* 0.3*			
Semivelatile Halogenated Organica Hexachlorobundtene • Hexachlorocyclopentadiene Tetrachlorobenzene •	· % ·	BCRL	0.3* 0.3-0.6 0.3*			

Below Certified Reporting Limit.

Micrograms per gram. Indicator Range. \$~

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. 2

Phase II program not conducted.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Teble WSA 2.1-1, Summary of Soils and Sediments Analytical Results in WSA, Page 24 of 42

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Total Borings Total Samples	Phas	Phase I Analyses	WSA-7b. Sanitery Sewer - Surrounding Soils	rt - Surrounding Sol	Phase il Analyses/3	
Analytical Groups and Analytes Detected Organic physiciles	Frequency of Detections/1	Range (1:9/9)	CPL Flange (µ9/2	Frequency of Detections/1	Range	CAP.
Aklrin Dieldrin Endrin Isodrin	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	BCRL BCRL BCRL BCRL	0.3 0.3 0.3-0.5		(B) Ref	2 (БДД),
Arscale (IR=CRL-10)	1,6	BCRL	2.5.5			
Mercury (IR=CRL-0.1)	9/0	0.42	0.05-0.06			
KP Metals Cachnium (IR=1-2) Chromium (IR=25-40) Copyer (IR=20-35) Lead (IR=25-40) Zinc (IR=60-80)	00/6 27/6 37/6 27/6	BCRL 13-14 8.5-48 22-37	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13 8.7-9.5			

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used,

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. 86.

Phase II program not conducted.
There is no CRL for tentitively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of

Table WSA 2.1-1. Summary of Soits and Sediments Analytical Results in WSA. Page 25 of 42

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			Section 3 - Other Areas	Mher Aress		
Total Bamples Total Samples		Fnese I Analyses 53 56		•	Phase II Analyses/3	
Analytical Groups and Analytes Detected Volatile Halmernated December	Frequency of Detections/1	Range (µg⁄g)	СР <u>г.</u> Range (µg/g) ^{/2}	Frequency of Detections/1	Range (unks)	CH. Range
1.2-Dichlorocthylene 1.1.2-Tetrachlorocthane 1.1.1-Trichlorocthane 1.1.2-Trichlorocthane Carbon Tetrachloride Chlorobenzene Tetrachlorocthylene Trichlorocthylene Trichlorocthylene	NOT AMBIYZED					18.641
Methylene Chloride	Not Analyzed					
Volatile Hydrocartons 2-Butoxyethanol • 4-Hydroxy-4-methyl-2-pentanone • Bicycloheptadiene Dicyclopentadiene Methylcyclohexane •	Not Analyzed					
Methylisobutyl Ketone Volatike Aromatic Organica	Not Analyzed					
Benzene Ethylbenzene m-Xylene Toluene						
BCPL = Balow Certified Reporting Limit.						

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. 20.

Phase if program not conducted.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solls and Sediments Analytical Results in WSA, Page 26 of 42

Balow Certified Reporting Limit.

Indicator Range.

Micrograms per gram. \$~

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. **Q Q** .

Phase il program not conducted.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of samples is not.

Table WSA 2.1-1. Summary of Solits and Sediments Analytical Results in WSA. Page 27 of 42

			Section 3 - Other Areas	Whee Areas		
Total Borings Yotal Samples	4	Phase I Analyses 53 58			Phase II Analyses/3	8
Analytical Groups and Analytes Detected Organschlorine Pesticides	Frequency of Detections/1	Range (µg/g)	СРЕ. Range (µg/g) ^{/2}	Frequency of Detections/1	Range (µg/g)	CPL Range
Aldrin Dieldrin Endrin Isodrin	0/50 0/50 0/50 0/50	BCRL BCRL BCRL	0.3 0.3 0.3-0.5 0.3			
Arsenic (IR=CRL-10)	. 0/20	BCRL	2.5-5			
Mercury (IR=CRL-0.1)	0/20	BCRL	0.05-0.06			
ICP Metals Cadmium (IR=1-2) Chromium (IR=25-40) Copper (IR=20-35) Lead (IR=25-40) Zinc (IR=60-80)	0/56 47/56 40/56 20/56 56/56	BCRL 6-19 5.5-88 11-23	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13 8.6-9.5			

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

20.

Phase II program not conducted.
There is no CRL for tentialvely identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summery of Soils and Sediments Analytical Results in WSA. Page 28 of 42

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Total Bosinos	100	Phase Angivasa	Section 4 .	Section 4 - Other Areas		
Total Samples	1	41			Phase II Analyses	•
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/q)	CRL Range (uo/o/2	Frequency of	Range	CAF. Pange
Valatile Halosenated Organics	•		18.35.7	Defections	(६/६न)	(hg/g)/2
1.2-Dichloroethylene	0/10	BCRL	7010			
1,1,1-Trichlorochane	1/10	0.5	0.3	Not Analyzed	4	
1,1,2-Trichlorocthane	0,70	BCRL	0.3-0.4	Not Analoged	0.50	0.3
Carbon Tetrachloride	01/0	BCRL	0.3-2	Not Analyzed		
Chlorobenzene	0.70	ECKL PCR	0.3	Not Analyzed		
Tetrachloroethylene	0/10	BCKL	0.3	Not Analyzed		
Inchlorochylene Trichlorochorene	01/0	BCRL	0.3 0.3-0.5	Not Analyzed		
	•	•	0.3	Not Analyzed		
Methylene Chloride	0/10	ומטמ		mar (mar)		
. Medical as	?	BCKL		Not Analyzed		
2-Butorveiband						
4-Hydroxy-4-methyl-2-pentanone	•	•	0.3•	•		
Bicycloheptadiene	Not Analyzed	•	0.3	,	• 4	0.3
Dicyclopeniadiene Methylcoglopenia	0/10	BCRL	0107	Not Analyzed	•	0.3
Methylisobutyl Kelone	Mas A	•	0.3*	% '	BCRL	0.30-0.70
	NOT AMBLYZED			Not Analyzed	•	0.3•
Yolatile Aranatic Organics Renzers	Not Analyzed			Mes A self		
Ethylbenzene				Dazkinghan		
m-Xylene Tolivere						

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentiatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

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Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 29 of 42

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Total Borings Total Samples	ā	Phase I Analyses			Phase II Analyses 5	•
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/g)	CRL Range (uq/q)/2	Frequency of	Range	CR. Range
Organosulfur Compounds Musignd - Agent Related Chloroscetic acid	0/47	BCRL	40	Not Analyzed	(lybri)	z,/ b/6 // /)
Organsphosphorous Compounds, GB-Avent Related Phosphoric acid, tributyl ester *			3 .			
DBCP	0/47	BCRL	0.0050-0.014	· ×	. 2	0.3
Polynickar Aromatic Hydrocarbons				}		0.0030-0.014
Fluoranthene Pyrene Pyrene			0.3	•	•	0.3•
Methyl naphthalene	•	, ,	0.3	• •		0.3
Semivolatife Halogenated Organics Hexachlorobutadiene * Hexachlorocyckopentadiene Tetrachlorobenzene *	. 0/47	. BCRL	0.3* 0.3-0.6 0.3*	. 90 .	BCRL	0.30-0.60
Organochlorine Pesticides Aldrin Dieldrin Endrin Isodrin	0/47 0/47 0/47	BCRL BCRL BCRL	0.3 0.3 0.3-0.5	9/0 9/0	BCRL BCRL BCRL	0.30 0.30 0.30-0.50

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyse in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentratively identified compounds. The value shown is a datection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 30 of 42

Total Business	a de	Phase ! Apalyana	Section 4 - Other Area	Other Areas		
Total Samples		41			Phase II Analyses	
Analytical Groups and Analytes Detected Arstoic (IR=CRL-IV)	Frequency of Detections/1	Range (µg/q)	CPL Rang∙ (µg/g)/2	Frequency of Detections/1	Range	CRL Range
Mercury (IR=CRL-0.1)	0/47	BCRL	2.5-5 0.05-0.06	Not Analyzed Not Analyzed		- 455m)
LCP Metals Cadmium (IR=1-2) Chromium (IR=25-40) Copper (IR=20-35) Lead (IR=25-40) Zinc (IR=60-80)	0,47 28,47 35,47 20,47	BCRL 7.8-16 5.3-19 10-41	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	BCRL 8.7-16 7.4-15	0.66-0.74 5.2-6.5 4.7-4.9
	7,07	13-98	8.7-9.5	9/9	13-73 39-62	8.4-13 8.7-9.5

Below Certified Reporting Limit. Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used. 2

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentetively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solls and Sediments Analytical Results in WSA, Page 31 of 42

			Section 9 . Other Area	Wher Areas		
Total Borings Total Samples	ę	Phase I Analyses 27 27			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/t)	CPL Range (119/9/2	Frequency of	9 Range	CPL.
Yolatile Halogenated Organica 1,2-Dichloroethylene 1,1,2,2-Tetrachloroethane •	Not Analyzed			9/0	(Maya)	₇ ,(Б,Бп)
1,1,1-Trichloroethane 1,1,2-Trichloroethane Carbon Tetrachloride				, 9/ 0 9/0	BCRL BCRL	0.28 0.088 0.28
Chlor, venzene Tetrachloroethylene Trichloroethylene Trichloropropene				9/0 9/0 9/0	BCRL BCRL BCRL BCRL	0.12 0.30 0.27 0.14
Methylene Chlorati	Not Analyzed			, %	. 8	0.3
Volatile Hydroxarbons 2-Butoxyethanof • 4-Hydroxy-4-methyl-2-pentanone • Bicycloheptadiene Dicyclopentadiene Methykyclohexane • Methylisobutyl Ketone	Not Analyzed 0/27 Not Analyzed	BCRL	0.3* 0.3* 0.3-0.7 0.3*	80°°°	BGR BGR.	0.70-20 0.3* 0.30-0.40 0.30-0.70 0.30-0.70
_ 0 = - 1 1	Not Analyzed			9/0 9/0 0 0	BCRL BCRL BCRL BCRL	0.85 0.16 0.26 0.26
Device = Berow Certified Reporting Limit.						0.17

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple defections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solls and Sediments Analytical Results in WSA. Page 32 of 42

Total Rosings	Phase	a f Ansivers	Section 9 - Other Areas	ther Areas		
Total Samples		27 27			Phase II Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (µg/g)	CPL Range (110/n y/2	Frequency of	9 Range	CH. Range
Organosulfur Compounds Mustard - Agent Retailed Chloroacetic acid	0/27	BCRL	O.	Delections	(क्रक्त)	ζ/β/δπ)
Organophosphorous Campounds, GB-Agent Related Procedures		1	}	9/ 0	BCRL	36
Lincophilic acid, tributyl ester * Discre	•	•	0.3	•	•	979
Z	0/27	BCRL	0.0050-0.014	8	ě	
Polymelear Arvenuie Hydrocarbons				}	BCKE	0.0050-0.014
Methyl naphisalene • Pyrene •	127	0.7	0.3*		• •	0.3
Semiyolatile Helogenated Organica Herachlong Indiana			3	•	•	0.3•
Hexachlores yelopentadiene Tetrachlore senzene	0,27	BCRL	0.3-0.6	· &	BCRL	0.3*
Organochlorat Pesticides			}	•	,	0.3*
Aktın Dieldrin Endrin Isodrin	0,27 0,27 0,27	BCRL BCRL BCRL	0.3 0.3 0.3-0 \$	\$ \$ \$	BCRL	0.30 0.30
	0/27	BCRL	0.3	\$ \$	BCRL BCRL	0.30-0.50 0.30

Below Cartified Reporting Limit. Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of enalyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

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Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyzes.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA. Page 33 of 42

:	Park	Plane ! Anathone	Parties 1 . Other Appear	Ì		
Total Borings Total Samples		27			Pacce la Analyses	
Analytical Groups and Analytes Detected	Frequency of Detections/1	Runge (us/g)	Para Maria	No transfer of	2	Out.
	U/2.7	BCRL				The state of
Mercury (IR=CRL-0.1)	72/0	BCRL	00500	Plea andyond		
ICP Metals Cadmium (IR=1-2) Chromium (IR=25-40) Copper (IR=20-35) Lead (IR=25-40) Zinc (IR=60-80)	0/27 26/27 24/27 10/27 27/72	BCRL 8.3-18 5.9-17 10-16 26-62	0 44 0 44 0 44 0 44 0 44 0 44 0 44 0 4	Ph. mulyand		

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical meth. It has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

There is no CRL for tastatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

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Indicator Range.

Micrograms por gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

Phase it program not conducted.

There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not

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Table WSA 2.1-1. Summary of Soits and Sediments Analytical Results in WSA. Page 35 of 42

Total Borings Total Samples	Phase	Phase I Analyses 9 9	Section 28 - Other Areas		Phase II Analyses/3	
Analytical Groups and Analytes Detacted	Frequency of Detections/1	Range (µg/g)	CRL Range (ug/o/2	Frequency of	Range	CPP.
Organosulfur Compounds Mustard - Azent Belaied Chlorosceie acid	6/0	ī a S			(½6d)	₂ /β/δή)
Organopheenhoreus Compounds. QB-Aeen Related Phosphoric acid, tributyl ester •			9			
DBCP	. 60	, Ia.Ja	0.3•			
Pokrazkar Aronaic Hydrocartons Fluoranthene	,		ç ;			
Pyrene • Methyl naphthalene •		. , ,	0 0 0 0			V
Semirolable Halogenated Organica Hexachlorobutadiene * Hexachlorocychopentadiene Terrachlorobenzene *	· 6⁄0	BCRL	0.3* 0.3*0.6 0.3*			

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. ₽ ₽•

Phase II program not conducted.
There is no CRL for tentarively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

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Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 36 of 42

Total Borings	Phas	Phase I Analyses	Section 28 - Other Areas		Phase II Amil.	
otal camoies		, 6				
Analytical Groups and Analytes Detected Organicality Posticides	Frequency of Detections/1	Range (µg/g)	CRL Range (µq/q/²	Frequency of Detections/1	Rango	Parige
Akdrin Dieldrin Endrin Isodrin	\$0 0 0	BCRL BCRL BCRL BCRL	0.3 0.3-0.5 0.3-0.5		(B/B/I)	7/6/6 1)
Arseric (IR=CRL-10)	6/0	BCRL	2.5-5			
Mercury (IR=CRL-0.1)	6/0	BCRL	0.05-0.06			
ICP Metals Cadmium (IR=1-2) Chromium (IR=25-40) Copper (IR=20-35) Lead (IR=25-40) Zinc (IR=60-80)	0,0 8,8 8,9 6,9 6,9	BCRL 11-15 9-24 BCRL 41-53	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13 8.7-9.5			

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Cartilied Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

26.

Phase II program not conducted.
There is no CRL for terratively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 37 of 42

	I		Section 43			
Total Borings Total Samples	• 1	Phase I Analyses 32 22	er lismass		Phase II Analyses/3	
Analytical Groups and Analytes Detected Volatile Halogernsted Organiss	Frequency of Detections/1 Not Analyzed	Range (49/9)	CPL Range (µg/ŋ/²²	Frequency of Detections/1	Range (µg/q)	CPL. Range (µg/g) ^{/2}
1,1,2,2-Tetrachloroethane ** 1,1,1-Trichloroethane 1,1,2-Trichloroethane Carbon Tetrachloride Chlorobenzene Tetrachloroethylene Trichloroethylene Trichloroethylene Trichloropropene **						
Methylene Chloriste	Not Analyzed					
Volutile Hydrocarbons 2-Butoxychanol • 4-Hydroxy-4-methyl-2-pentanone • Bicycloheptadiene Dicyclopentadiene Methylcyclohexane • Methylisobutyl Ketone	Not Analyzed 0/26	BCRL	0.3* 0.3-0.7 0.3-0.7 0.3*			
Yolatile Aromatic Organics Benzene Ethylbenzene m-Xylene Toluene	Not Analyzed	·				

Indicator Range.

.. Micrograms per gram. 6/01

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. 20.

Phase II program not conducted.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

		0.00
7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		2 Sec. ft.
Alternative Contraction		
	200-024	A S
	0000	
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
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Table WSA 2.1-1. Summary of Soits and Sediments Analytical Results in WSA. Page 38 of 42.

Total Borings Total Samples	į ik	Phase I Analyses 32	Section 33 - Other Areas	Other Arees	Phase II Analyses/3	3
Analytical Groups and Analytos Detected	Frequency of Detections/1	Range (µq/n)	CRL Range	Frequency of	Range	CAL Parce
Organisalfur Compounds Mustard - Agent Related Chlomacetic acid	026	n a Car	16.6m	Detections/1	(6/6 //)	_{2,} (Б,Бл)
Ozanophophoreus Compounds, OB-Astra Related Phosphoric acid, triburyl ester •			0			
DRCP	0/26	BCRI.	0.3*			
Relynix Ear Aromatic Hydrocarbons Fluoranthene • Pyrene • Methyl naphthalene •			0.3 0.3 0.3			
Senivolatile Halogenated Organica Hexachlorobutadiene • Hexachlorocyclopentadiene Tetrachlorobenzene •		BCRL	0.3• 0.3• 0.3-0.6 0.3•			

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. 86.

Phase II program not conducted.
There is no CFL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the mothod used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solis and Sediments Analytical Results in WSA, Page 39 c⁴ 42

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			Section 33 - Other Areas	Other Areas		
Total Borings Total Samples	Phas	Phase I Analyses 32 32			Phase II Analyses/3	8
Analytical Groups and Analytes Detected Organschlorine Pesticides	Frequency of Dotections ^{/1}	Range (μg/g)	CRL Range (µg/g)/2	Frequency of Detections/1	Range (µg/g)	CAL. Range (uc/q) ²
Aktria Dieldria Endria Isodria	0/26 0/26 0/26 0/26	BCRL BCRL BCRL BCRL	0.3 0.3 0.3-0.5 0.3			
Arknik (1R=CRL-10)	92/0	BCRL	2.5-5			
Mercuck (IR=CRL-0.1)	0/26	BCRL	0.05-0.06			
ICP Meals Cadmium (IR=1-2) Chronium (IR=25-40) Copyer (IR=20-35) Lead (IR=25-40) Zin: (IR=60-80)	1/38 25/38 28/38 15/38 37/38	1 5.9-31 4.7-70 12-41 14-350	0.66-0.74 5.2-6.5 4.7-4.9 84-13 8.7-9.5			

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram. t\on

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses. ŔΕ.

Phase II program not conducted.
There is no CRL for tentalively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

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Table WSA 2.1-1. Summary of Soils and Sediments Analytical Results in WSA. Page 40 of 42

Total Borings Total Samples	Pha	Phase Analyses	Section 34 - Other Arens		Phase II Analyses/3	
Analytical Groups and Analytes Detected Yolutile Halogonated Organics 1,2-Dichlerocthylene 1,1,2-Tetrachloroethane 1,1,2-Trichloroethane Carbon Tetrachloride Chlorobenzene	Frequency of Detections ¹¹ Not Analyzed	Range (µg/g)	CRL Range (µg/g)/2	Frequency of Detections / 1	Ramge (µg/g)	CPL. Range (µg/g)/2
Tetrachlorocthylene Trichlorocthylene Trichlorocthylene Trichlorocthychene Wethylene Chloride	Not Analyzed					
Voluile Hydrovatsyns 2-Butoxyethanol • 4-Hydroxy-4-methyl-2-pentanone • Bicycloheptratiene Dicyclopentatiene Methykyckoliexane • Methylisobutyl Ketone	Not Analyzed Q/15	BCRL	0.3• 0.3• 0.3-0.7 0.3•			
Yolatile Aromatic Organica Benzene Ethylbenzene m-Xylene Toluene	Not Analyzed					

Below Certiliad Reporting Limit.

Indicator Range.

... Micrograms per gram, 55. 16.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among laboratories conducting analyses.

20.

Phasa il program not conducted.
There is no CRL for tentatively identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of sumples is not.

Table WSA 2.1-1. Summary of Solts and Sediments Analytical Results in WSA. Page 41 of 42

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Total During	Phase	Phase (Analyzes	Section 34 - Other Areas			
Total Samples		15 15			Phase II Analyses/3	6
Analytical Groups and Analytes Detected	Frequency of Detections/1	Range (ug/g)	CRL Range (µg/g) ^{/2}	Frequency of Detections/1	Range	CH. Range
Organicalfur Compounds Mustard - Apent Related Chloroacetic acid	0/15	BCRL	40		is in the second	, (6,8 ₁)
Organizabosphirous Compounds, SB-Ascrit Related Phosphoric acid, tributyl cater •	,	•	9.0			
DBCP	0/15	BCRL	0.3			
Polynicker Aromatic Hydrocarbons Fluoranthene * Pyrene * Methyl naphthalene *			0 0 0 0 0			
Semivolatise Halogenated Organics Hexachlorobutadiene • Hexachlorocyclopentadiene Tetrachlorobenzene •		BCRL	0.3* 0.3-0.6 0.3*			

Below Certified Reporting Limit.

Indicator Range.

Micrograms per gram.

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Limit (CRL), or detection limit which varies among faboratories conducting analyses. 2.5

Phase II program not conducted.
The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

Table WSA 2.1-1. Summary of Solas and Sediments Analytical Results in WSA. Page 42 of 42

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			Section 34 - Other Areas	Other Areas		
Total Borings Total Sampies	2	Phase Analyses 15 15			Phase II Analyses/3	3
Analytical Grocus and Analytes Detected Organical Pesticides	Frequency of Detections/1	Range (µg/g)	СР <u>к</u> Рапре (µq/g) ^{/2}	Frequency of Detections/1	Range	CAL Fange
Aktrin Dieldrin Endrin Isodrin	0/15 0/15 0/15	BCRL BCRL BCRL	0.3 0.3 0.3-0.5		(R.64)	7 (Б/Бн)
Arsenic (IR=CRL-10)	0/15	BCRL	0.3			
Mercury (IR-CRL-0.1)	6/15	BCRL	0.05-0.06			
ICP Metals Cadmium (IR=1-2) Chromium (IR=25-40) Copper (IR=20-35) Lead (IR=25-40) Zinc (IR=60-80)	0/15 13/15 29/15 2/15 12/15	BCRL 9-16 9-20 22-24 33-57	0.66-0.74 5.2-6.5 4.7-4.9 8.4-13 8.7-9.5			

Below Certified Reporting Limit.

Indicator Range,

Micrograms per gram. 564 57

Fraction represents the total number of samples with detections of an analyte in relation to the number of analyses conducted on all samples. This value does not include multiple detections of a specific analyte in the same sample, which occasionally has occurred when more than one analytical method has been used.

Certified Reporting Llmit (CRL), or detection limit which varies among laboratories conducting analyses.

86.

Phase il program not conducted. There is no CRL for tentainely identified compounds. The value shown is a detection unit based on 10% of the internal standard for the method used. The number of detections is given but number of samples is not.

	1.	1																													
2	9008 Range (geomic.	mean) µg/l		BCRL	BCRL	BCRL	Ź	BCRL	BCRL	₹	BCRL	BCRL	BCRL	BCRL	BCRL PGR.	BCKL	BCRL		BCRL	BCRL			BCKL BCB:	DCRL DCB:	BCRL Brei	Ze K	To Victoria		į		
	Well 03008 Frequency of Rang	Detections	!	0/3	6/0 6/0	0/2	≨ ₹	5/0	5/0	≨ ;	0/4	0/4	0/4	0/4	4/0	r S	6/3		0/2	0/1		7/0	ָרָ בָּי		0/4	0/4	·		Ş	0/2	
of 66.	Well 03005	meen) µg/l	1958	DCRL BCer	BCRL BCR1	NA N	F G DE	76 (1.9)	14 (1.3)	(+I) +J	DCKL DCB:	14 20 CRL		BCKL	BCRL BCRL	!	BCRL		13 (3.3)	BCKL		BCRL	BCRL	BCRL	BCRL	BCRL			RCR.	BCRL	
y Area. Page 10	Well Frequency of Detections		20	56	6/3	≨	0/3	1/4		0/4	0/4	2/4	7	0/4	0/4	1	6/9		1/4	C C		0/4	0/3	0/4	0/4	0/4			0/4	0/4	
its for the Unconfined Aquifer of the Western Study Area. Page 1 of 66.)3002 Range (geometric mean) µg/l		BCRL	BCRL	BCRL	₹	BCRL	BCRL	₹	BCRL	BCRL	BCRL	BCRL	BCRL	BCRL	BCei	DCNE		BCRL BCRL)		BCRL	BCRL	BCRL	BCRL	BC.K.L.			BCRL	BCRL	
onlined Aquiter of	Well 03002 Frequency of Rang Detections m		0/2	0/2	0/2	≨ ∶	0/2	0/2	≨	0/3	6/0	6/0	0/3	0/3	0/3	0/3	1		0/3 0/2		5	5/0	7/0	70	6/0	ch			6/0	6/3	
Results for the Unc	Well 03001 of Range (geometric ns mean) µg/l		Ž :	≨ ;	≨ :	≨ ;	≨ }	≨ :	≨ }	BCKL	BCKL	BCR	BCRL	BCRL	BCRL	\$			BCRL NA		10.78	NA NA	36.00	(5) (5.7) 1979	3.7 G.7	(2.2)			BCRL	BCKL	
Tebis WSA 2.4-1 Summary of Groundwater Analytical Resu	Well Frequency of Detections		Ž 2	≨	£ \$	\$ \$	£ 3	£ 2	£	170	7/0	1/0	1/0	6.0	1/0	ž		ć	5₹		7/0	; 2	: :		;;; [/]	•			1/0	1	
Summary of Grox		Yolatile Halogenated Organic Compounds	thane	thylene	thylene	octhane	octhane	orocihane	karile Parile		•	verbulane.	Action Section	yıcııc	2		š		kelone	TREDICE							unds.	3			
Table WSA 2.4-1		Volatile Halogenan	1.1 Dichloroethane	1.1 Dichloroethyleae	1.2 Dichlorocthylene	1.1.1 Trichloroctiane	1.1.2 Trichlorocthane	1.1.2.2 Trichloroethane	Carbon tetrachloride	Chlorobenzene	Chloroform	T-1.2 Dichlamethylene	Tetrachlomathulana	Trefloroethylene		Methylene Chloride	Volatile Hwincarhous	Dicyclopentadiene	Methylisobutyl ketone	Velatile Arematic Organica	Benzene	Ethylbenzene	m-Xylene	o and p-Xylene	Tolucine		Otterstuliur Compounds	PRINCIPLE ALCIN NEIGHE	1,4 Oxathuane Dithiane		
	•	- ,														2	>	f		×						•	ä⁴	4			

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

	Well Frequency of	Well 03001	Well	Well 03002	Well	Well 03005	Ä	Well masses
	Detections	mean) µg/l	Detections	Nuige (geometric mean) µg/l	Frequency of Detections	Range (geometric	Frequency	Range (geomic.
Octamosuifur Compounds. Herbicide Related						184 (114	Detections	mem) µg/l
Chloropheny methyl sulfide	1/0	ě						
Chlorophenylmethyl sulfone	66	EX.	£/0	BCRL	0/4	la Ja	\$	
Chiorophenylmethyl sulfoxide	0/1	BCRL	T T	BCRL	0/4	BCRL	0/2 0/2	
Orrapsitaten Connounds				7	•/0	BCRL	7/0	BCRL
Caprolactain	Ź	\$	Ž	Ä				
Organisacherens Compounds.			•	Ę	£	≨	ž	\$
OB - Armit Related		•						
Dimethylmethyl phosphonate	0/1	BCRL	1/0	ē	į			
Docto	0/1	BCRL	0/3	BCRL	0/4 6/4	BCRL	£/0	BCRL
	1/0	BCRL	9/0	i a.Ja	; ;	DCN.	0/3	BCRL
Semivolatile Halogenated			<u>}</u>	TVV	1/4	0.42 (0.10)	6/3	BCRL
May achieve at the second								
mean and ccyclopentadiene	₹	ž	0/2	ē	2	ı		
Orracchiering Passicides				a var	6/0	BCRL	6/3	BCRL
Albin	0/1	Ja-Ja	9					
Deldin	0/1	BCRL	5/5	BCR.	1/4	0.07 (0.02)	77.	
2 2 4	₹.	ž	5/0 0/2	BCRL	2/4	2.5-2.9 (1.3)	7/0	0.08 (0.02) B.T.
Endrin	≨ \$	Ž	0/2	BCR!	22	0.29 (0.07)	6/0	N. W.
Isodrin	1/0	BCRL BCR	6/3	BCRL	0/4		6/0	BCRL
Acsenie			6/0	BCRL	0/4	BCRL	6 /6	
	1/0	BCRL	2/0	BCRL	0/4	BC01	;	
Mersuck	ž	ž	Ş	į		DCKC	1/4	4.3(1.1)
ICP Metals			7/0	BCKL	6/3	BCRL	1/0	BCRL
Cachnium								ı
Chromium	1/0	1858 1858 1858	2/0	BCRL	0/4	2	3	
Copper	. 1/0	PCR.	0/2	BCRL	6/3	BCRL	7/0	BCRL 1.00
2. Ed.	0/1	BCRL	1/2	BCRL 38 (19)	7/0	BCRL	0/4	8.7 (2.2) PCRI
4.11Pc	~	70 (70)	7/1	27 (14)	2/4	BCRL 7 236 24	0/4	BCRL
N/A = N/20 A==1				•		// · / /// / // /	7	

SUMMATION TO THE PROPERTY.

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µg!! = micrograms per liter

Rev. 4/29/89 WSA 2.4-1/WSA-1

	ı		1																																
	3518 Range (geomic.	mean) µg/l			BCR.	200	200			2 E	SCR.	Ž,	BCKL	BCRL	BCRL	BCRL	BCRL	BCRL	,	BCRL		BCB.				2	a series	שלאלו היים	PCRL PCP!	100	DCKL				DEAL
	0 =																																		
	We Frequency of	Cetections			0/1	0/1	0/1	ž	0/1	1/0	2		7.5	0/1	7/0	1/0	1/0	1/0		1/0		0/1	0/1	•		0/1	5	5	1/0	5			;	[6 6	<u>;</u>
8-8-0 6-8.	Range (geometric	mean) µg/1			BCRL	BCRL	BCRL	BCRL	BCRL	BCRL	≨	BCRI.	R. P.	BCR!	7 × ×	∑	DCN.	DC. N.	ומטע	TWO THE		ž	≨			BCR!	BCRL	BCRL	≨	≱			3	₹ Ž	
Area. Pege 3 of 66.	Well 03011 Frequency of Range Detections				7,0	1,0			0/1	I/o	₹	0/1	0/1	0/1	2	1/0	0/1	;	۰/۵			≨:	₹		;	1/0	0/1	0/1	≨:	≨			*	ž	
e Western Study	; (geometric			Ą	₹ ₹	. A	§ <u>*</u>	S AN	Ş	5 5	≱	HCKL	BCRL	18 (18)	BCKL	BCRL	BCRL		≨			BCRL	<u>\$</u>		PC01	N. P.	¥ 20	BCKL.	BCKL	DURE			BCRL	BCRL	
nlined Aquitor of th	Well 03010 Frequency of Kange Detections me			₹	≨	≨	₹	Z	ž	ΝΑ	5 2	1/0	1/0	5	1/0	0/1	0/1	į	₹			5 €			0/1	. ₹		7/0		•			1/0		
Results for the Unco	: (geometric en) µg/l			≨	≨	≨	₹	₹	Ź	£	BCR!	BCp.	1629	BCKL BCB1	BCAL	BCRL BOH	BCKL	1	٤		B/CB I	₹			BCRL	ž	BCR!	PCR!	BCRL				BCRL	BCKL	
Indwater Analytical	Well 03009 Frequency of Range Detections me	4		≨ ;	≨ :	≨ :	≨ ∶	≨ ∶	ž	₹	1/0	0/1	1/0	1/0	* 70	1/0	1/0	Ϋ́Α	<u> </u>		0/1	ž			0/1	Ź	1/0	0/1	0/1				1,0	1/0	
Table WSA 2.4-1 Summery of Groundwater Analytical Results for the Unconfined Aquifor of the Western Study Area.		Volstile Halogeneited Organic Commune	Morthaga Language	2 Dichlorethee	1. Dichlorushalan	2. Dichtweethulen	1.1 Trickless at a -	1.1.2 Tricklesson	1,1,2 111cmoloculand	icaloroe in and	rachloride	zene	=	T-1,2 Dichloroethylens	oethylene	thylene	•	rick	1	arbons	itadiene	Methylisobutyl Ketone		K Visanics		9		cne			mosunds.	(cialed	22		
Table WSA2		Yolatise Haloge	1.1 Dichloroethans	1.2 Dichte	T. Dickle	1.2 Dicht.	TILL Tries	1 1 2 Tein	1,1,4 1,11	1,3,2,4	Carbon terrachloride	Chlorobenzene	Chloroform	T-1,2 Dich	Tetrachloroethylene	Trichloroethylene		Mathylene Chlorick		Volatile Hydrocarbons	Dicyclopentadiene	Methylisob	Valuable A	A STATE OF THE OF SUICE	Edw. M.	c:nyiocnzene	m-Aykne	o and p-Xylene	Toluene	:	Orranosulfur Compounds.	MUSICA ARCHI REISIEG	I.4 Oxathume Dithiane	!	

NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data
µ8/l = micrograms per liter

Table WSA 2.4-1 Summary of Groundwaler Analytical Results for the Uncontined Aquiter of the Western Study Area. Page 4 of 68. ** 100 There's W. T.

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	Well Frequency of Detections	Well 03009 1 of Range (geometric ns mean) µg/l	Wall Frequency of Detections	Well 03010 Vol. Range (geometric ns. mean) 1101	Well Frequency of	Well 03011	Well Frequency of	Well 03518
Oceanosulfur Compounds.				1.62	Defections	mean) µg/l	Detections	mean) µg/l
Hankide Related								
Chlorophenylmethyl sulfide	1/0	BCRL	.,					
Cultor opnenylmethyl sulfone	0/1	2	7 6	BCRL	≨	X	•	
Canolophenylmethyl sulfoxide	1/0	BCRL	76	BCRL PCB-1	≨;	Ž	1/0	
Organsmitrogen Compounds			•	TVVF	ž	Ź	0/1	ECK.
Caprolactam	¥N	į						
Oranophosphotous Compounds.	<u> </u>	≨	£	ž	ΑN	77.7	;	
GB - Agent Related					•	٤	£	≨
Diisopropylmethyl phosphonate	0/1	2	:					
Dunethylinethyl phosphonate	0/1	BCE!	I :	BCRL	ž	*	à	
り と を	•		7	BCRL	≨	. ₹	7/0	BCRL
	11/12	0.4 - 2.6 (1.0)	0/4	10.0	;	:	1/0	BCRL
Semivolatile Halozonated					£	≨	1/0	BCR1.
Granis Compounds								
Hexachlorocyclopentadiene	£	¥N						
		<u> </u>	٤	≨	≨	V.	į	
Meanochimine Pesticides						\$	7	BCRL
Aidin	1/0	EC B	;					
Dickin	0/1	BCRL	7 2	BCRL	ž	ž	5	į
ž.	ž	≨	- N	ECK.	₹	Ź	1 2	BCKL Post
Endrin	ž	≱	Ž	≨ ;	Ž,	≱	1/0	BCKL PCP:
Isochio	1/0	BCRL	1/0	\$ 50	≨:	≱	1/0	DCK!
	1/0	BCRL	. 1/0	ECR.	Ž :	Ž	0/1	PCR.
Anenic	ž	¥	-		٤	₹	1/0	BCRL
Mercury	į		٤	₹	Ź	₹	5	
	₹	≨	≨	**			100	BCRL
KCP Metals			:	š	≨	Ź	1/0	
Cadmium	ž	¥	5	,				
Chromium	ž	≨	\$ *	≨ :	ž	£	ê	;
	≨.	ž	£ 2	£ \$	≨:	ž		ECKL 14 (14)
Zinc	ž:	ž	≨	₹ ₹	2 2	Ž	1/0	#(#)
	£	£	ž	≨	£ £	£ \$	(T)	KIRL
						£	7	*7.7.

NA == Not Analyzed

BCRL == Below Certified Reporting Limits
(mcca) == Geometric Mean including value for BCRL data

µgll == micrograms per liter

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquiter of the Western Study Area. Page 5 of 66.

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquiter of the Western Study Area. Page 6 of 66.	Pundwater Analytic	al Results for the Un	confined Aquiter of	the Unconfined Aquiter of the Western Study Area. Page 6 of 68.	Page 6 of 66.	9	
	Well Frequency of Detections	Well 03523 of Range (geometric ssmean) µg/l	Well Frequency of Detections	Well 03526 of Range (geometric			
Ogsmortalfur Compainals, Herbicide Related Chkvophenylmethyl suffide Chlorophenylmethyl suffone Chlorophenylmethyl suffone	0/1 0/1 1/0	BCRL BCRL BCRL	222	\$ \$ \$ \$			
Otteronitroscn Cempounds Caprolactam	\$	ž	. ≨	<u> </u>			
Oregophorous Compounds. CBAscal Extensi Diisopropylinethyl phosphonate Dimethylinethyl phosphonate	0/2 0/2	BOR FOR	. ₹3	<u>\$</u>			
2580	15/15	20 - 100 (40)	01/0				
Semivolatile Halenenated Orzenie Cemixanuta Hexachlorocyclopentadiene	2/3	0.19 - 0.36 (0.17)	£	2			
Organochkoine Penicides Aldein	0/3	BCR!	2	:			
106 100 100	6/0 6/0 7/0	BCRL	£	≨ ≨ ≨			
Endrin Isodrin	0/3 0/3	BCRL BCRL BCRL	22 2	22 3			
Arsenie	6/3	BCRL	\$. ≨			
Msrciary	1/0	BCRL	ž	. ≨			
ICP Metals Carlminm	2	j					
Chromium	0/3 C/1	BCRL 14 (4.8)	Ž Ž	\$ \$			
Lead Zine	0/3 2/3	BCRL BCRL 48 - 68 (38)	£ £ £	£ £2			
NA = Not Analyzed BCRL = Below Certified Reporting Limits (mean) = Geometric Mean including value for BCRL data 1481 = micrograms per liter	Limits value for BCRL	data	i .	ş			

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		Well Frequency of Detections	Well 04001 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 04002 of Range (geometric	Well Frequency of	Well 04004 of Range (geometric	
### PCRL 0/4 BCRL 0/4 0/3 BCRL 0/4 BCRL 0/4 #### 2.0-31 (2.3) 0/4 BCRL 0/4 #### 2.0-31 (2.3) 0/4 BCRL 0/4 #### 2.0-31 (2.3) 0/4 BCRL 0/4 #### 0/3 DCRL 0/4 BCRL 0/4 #### NA					1/8 / June 11	Detections	mean) µg/l	
0/5 BCRL 0/4 BCRL 0/4 0/5 BCRL 0/4 BCRL 0/4 0/4 10-3.1 (1.3) 0/4 BCRL 0/4 0/4 10-3.1 (1.3) 0/4 BCRL 0/4 0/4 BCRL 0/4 BCRL 0/4 0/5 BCRL 0/4 BCRL 0/4 0/6 BCRL 0/4 BCRL 0/5 0/5 BCRL 0/4 BCRL 0/4 0/5 BCRL 0/4 BCRL 0/4 0/6 BCRL 0/4 BCRL 0/4 0/6 BCRL 0/4 BCRL 0/5	Voletize Halveensted Organic Communed	**						
## 4/4 20-31 (2.3) 0/4 BRRL 0/4 4/4 20-31 (2.3) 0/4 BRRL 0/4 5/5 77-9-0 (7.9) 1/4 BRRL 0/4 BCRL 0/4 BCRL 0/4 BCRL 0/4 BCRL 0/4 BCRL 0/4 BCRL 0/5 6/6 BCRL 0/4 BCRL 0/5 5/6 0.8-4.6 (0.64) 1/3 0.93 (0.31) 4/5 5/6 28-4.9 (3.1) 2/4 0.87-1.0 (0.47) 1/5 6/7 BCRL 0/4 BCRL 0/4 BCRL 0/4 BCRL 0/5 6/8 BCRL 0/4 BCRL 0/5 6/9 (0.64) 1/3 0.93 (0.31) 4/5 6/9 BCRL 0/4 BCRL 0/4 BCRL 0/4 BCRL 0/5 6/9 BCRL 0/4 6/9	I.I Dichlorochane	5/0	200		,			
## 1/3 BCRL 0/4 BCRL 0/4 ## 2.0.3.1 (2.3) 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/3 ## BCRL 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/3 ## BCRL 0/4 BCRL 0/3 ## BCRL 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/3 ## BCRL 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/3 ## BCRL 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/3 ## BCRL 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/4 ## BCRL 0/4 BCRL 0/4 ##	1.2 Dichloroethane	Y 0	news.	7 /0	BCRL	0/4	PCP1	
10	1,1 Dichknocthylene		BURL	0/4	BCRL	0/4	BC91	
## 10(1.7) 1/3 10(3.1) 0/4 ## 10(1.7) 1/4 0.89 (0.22) 0/4 ## 10(1.7) 1/4 0.89 (0.22) 0/4 ## 10(1.7) 1/3 1/4 0.89 (0.22) 0/4 ## 10(1.7) 1/3 10 (3.3) 1/3 ## 1/6 10(1.7) 1/3 10 (3.3) 0/4 ## 1/6 10(1.7) 1/3 10(1.7) 1/3 ## 1/6 10(1.7) 1/3 10(1.7) 1/3 ## 1/6 10(1.7) 1/3 10(1.7) 1/3 ## 1/6 10(1.7) 1/3 10(1.7) 1/3 ## 1/6 10(1.7) 1/3 10(1.7) 1/3 ## 1/6 10(1.7) 1/3 10(1.7) 1/3 ## 1/6 10(1.7) 1/3 1/3 1/3 ## 1/6 10(1.7	1.2 Dichlyrethylese	4/4	2.0-3.1 (2.3)	0/4	BCB.		DCKC.	
555 7.0-9.0 (7.9) 114 0.89 (0.22) 0.04 1016 BCRL 0.04 BCRL 0.05 106 BCRL 0.04 BCRL 0.05 106 BCRL 0.04 BCRL 0.05 216 0.08-4.6 (0.054) 1.73 0.93 (0.31) 4.75 516 2.8-4.9 (3.1) 2.74 0.87-1.0 (0.47) 1.75 0/5 BCRL 0.04 BCRL 0.04 NA N		ò	BCRL	7/0	1000	7	BCRL	
NA	1.1.1 Inchiorocchane	5/5	7.0.90 (7.9)	7.	BCRL 6 % % co.	0/4	BCRL	
Hand NA	1.1.2 Trichloroethane	5/0	1000	* :	0.89 (0.22)	* /0	BCRL	
## O44 BCRL 0/2 BCRL 0/3 BCRL 0/3 BCRL 0/4 BCRL 0/4 BCRL 0/3 BCRL 0/4 BCRL 0/3 BCRL 0/4 BCRL 0/3 BCRL 0/4 BCRL 0/3 BCRL 0/3 BCRL 0/4 BCRL 0/3 (0.47) 1/3 0/3 (0.47) 1/3 0/4 BCRL 0/4 BC	1,1,2,2 Trichloroethane	2	3 4 A	6/4	BCRL	4/0	PCR	
Constitution of the state of th	Carbon tetrachloride	7/0	5 0	٤	≨	≨	₹N	
## PCRL 0/4 BCRL 0/5 CS	Chlorobenzene	* 10	BCKL	0/2	BCRL	70	1802	
CONTRACTOR OF A BERL OF	Chloroform	9/0	BCRL	0/4	I BUSH	7 0	BCRL	
CONTRIBUTE NO. 173 No. 174 No. 175 No.		9/0	BCRL	7/0	200	C/o	BCRL	
2/6 0.8-4.6 (0.64) 1/3 0.93 (0.31) 4/3 5/6 2.8-4.9 (3.1) 2/4 0.87-1.0 (0.47) 1/3 6/5 BCRL 0/4 BCRL 0/4 6/5 BCRL 0/4 BCRL 0/4 6/6 BCRL 0/4 BCRL 0/4 6/6 BCRL 0/4 BCRL 1/3 6/6 BCR	1-1,4 Dichlorochylene	0/2	BC B C		DCAL	0/2	BCRL	
5/6 284.9 (3.1) 1/3 0.93 (0.31) 4/3 0/5 BCRL 0/4 BCRL 0/4 NA N	Tetrachlorocthylena	3/6	2000	≨ :	ž	0/1	BCBL	
0/5 BCRL 0/4 0.87-1.0 (0.47) 1/5 0/5 BCRL 0/4 BCRL 0/4 NA N	Trichlorochylene	27.	(0.04)	27	0.93 (0.31)	4/5	10201	
MA NA	•	9/6	7.8-4.9 (3.1)	2/4	0.87-1.0 (0.47)	5/1	1 000 33	
MA NA	Methylene Ciloride	•			•	1	1.0(0.7)	
MA NA		0/2	BCRL	0/4	BCRL	9/4	I d C d	
MA NA	Veletile, Histogerbons					•		
MA NA	Dicw.longentadiene	;	;					
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1/6 10(1.7) 1/3 10(3.3) 0/5 0/5 BCRL 0/4 BCRL 0/4 0/6 BCRL 0/4 BCRL 0/5 0/6 BCRL 0/4 BCRL 1/5 0/6 BCRL 0/4 BCRL 0/5 0/6 MCRL 0/4 BCRL 0/5 0/6 MCRL 0/4 BCRL 0/5 0/6 MCRL 0/5 0/7 MCRL 0/5	200	;						
0/5 BCRL 0/4 BCRL 0/5 0/5 0/5 0/5 0/6 BCRL 0/4 BCRL 0/5 0/5 0/5 0/6 BCRL 0/4 BCRL 1/5 0/6 BCRL 0/4 BCRL 1/5 0/5 0/4 BCRL 0/5 0/5 0/4 BCRL 0/5 0/5 0/5 0/5 0/5 0/5 0/5 0/5 0/5 0/5	Sec. 18	9/1	10(1.7)	77	200	•		
0/6 BCRL 0/4 BCRL 0/5 0/5 0/6 BCRL 0/4 BCRL 1/5 0/5 0/6 BCRL 0/4 BCRL 1/5 0/5 MX NA	cuytocuzene	0/2	BCRL	7/0		C/o	BCRL	
0/6 BCRL 0/4 BCRL 0/5 0/6 BCRL 0/4 BCRL 1/5 0/4 BCRL 0/5 0/5 BCRL 0/5	m-Aylene	9/0	PC91		BCRL	4/0	BCRL	
0/4 BCRL 1/5 0/6 BCRL 0/4 BCRL 0/5 W W W W W W W W W W W W W W W W W W W	o and p-Xylene	9/6	200	6 /4	BCRL	0/2	BCRL	
MA M	Toluene	2 %	BCRL NOS:	0/4	BCRL	1/5	47 (13)	
* **		9/0	KKL	0/4	BCRL	0/3		
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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 7 of 66.

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(wean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

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			Range (geometric	mean) µg/l			X	. ₹	. ≨		¥			2	2	jaca	DCNL DCNL		¥		N .	£ á	5 2	. ≨	₹	ž	ž	:	£		¥	₹	≨:	≨:
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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconlined Aquirer of the Western Study Area Days of Section 2015				Controumds.	Page 1	Chlorophenylmethyl nulfide	Chlorophenylmethyl sulfone	Chlorophenylmethyl sulfoxide	1. Cempeunds	m,	Orthophermannes Communication	laked	Dissopropylmethyl phosphonate	Duncthylmethyl phosphonate		•	ilo <u>ronica</u> Punds	Hexachlorocyclopentadiena	Pesticiales															
Table WSA 2				Organosulfur Compounds.	Harbeide Related	Chlorophe	Chlorophe	Chlorophe	Ortanomitrogen, Compounds	Caprolactum	Organophorny	OB - Ason Related	Dissoprop	Duncthyli	2580	Company of	Organic Compounds	Hexachlore	Otzenechlezine Pessicides	Aldrin	Dickens	93	<u> </u>	Ending 1	umos:	Arsenic	Memory	THE PROPERTY.	ICP Metab	Cachnium	Chronaium	opport 1	Zinc	

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NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

H8/1 = micrograms per liter

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	Well Frequency of Detections	04007 Range (geometric mean) µg/l	Well Frequency of Detections	Well 04010 of Range (geometric	Well Frequency of	Well 04013 of Range (geometric	
Volstile Habzenated Organic Compounds	pomod				Detections	meun) µg/l	
1,1 Dichlorocthune	7/0	5	:				
1,2 Dichloroethane	7,0	DCRL Noor	6/3	BCRC	0/1	I G. Da	
1.1 Dichloroethylere	4 2	BCK!	0/3	BCRL		DCRL non-	
1.2 Dichlandering	5/0	BCRL	0/2	BCBI		BCK	
1 1 Table of the state of the s	1/1	2.1 (2.1)	Ź	X X	7	BCRL	
1,1,1 inchlorochane	0/4	BCRI	2		£	ž	
1.1.2 Trichloroethane	0/4	BCE!	7 6	BCK	0/1	BCRL	
1.1.2.2 Trichloroethans	Ž		c/o	BCRL	0/1	200	
Carbon tetrachloride	770	5 2	≨;	≨	*	NA	
Chlorubenzene	7 10	BUKL	0/4	BCRL			
Chloroform	6/0	BCRL	0/4	PC PC	1 5	SCK.	
	0/2	BCRL	7/0	1000		BCRL	
11,2 Dichloroethylene	**	36.86 (64)		BCKL	0/1	BCRL	
Tetrachloroethylene	4/5	0 82 2 8 74 45	* :	HCKL	1/0	RCR.	
Trichlorocthylene	5/5	1740 (1.4)	0/4	BCRL	0/1	ia Ju	
•	clo	(1.5) 0.6-6.1	0/4	BCRL	0/1	a constant	
Methylene Chloride	1/4	6 .) .	:		•	TOUR	
		(6.1) 0.7	6/3	BCRL	0/1	BCel	
Volstile Hwirecerbons					•	TANK!	
DKyckopentadiene	0/2	BCRL	0/2	I G. Dil	ë		
memylisodulyi kelone	1/0	BCRL	1/0	Z Z	1,0	BCRL	
7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			•	Town Town	0/1	BCRL	
Youthe Aromatic Organics							
Benzene	\$/0	Java		;			
Ethylbenzene	7/0	DCA.	7/0	BCRL	0/1	IaCa	
m-Xvlene	***	BCAL	C/0	BCRL	6	200	
	6/0	BCRL	7/ 0	BCRI		DCAL.	
o and in Ayland	9/2	BC3.	0/4	1 a 2 a	7/0	BCRL	
lowere	0/2	BCRL	7/0	200	1,6	BCRL	
:				DENE	0/1	BCRL	
Ortangsulfur Compounds.							
Musical Agent Relayed							
1,4 Oxathiane	01.5	Ja-Za	5				
Dithiane	20		7/0	BCRL	٥/1	BCR.	
		BUNE	7/0	BCRL	1/0	100	

NA == Not Analysed
BCRL == Below Certified Reporting Limits
(mean) == Geometric Mean including value for BCRL data
µg/l == micrograms per liter

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	04013 Range (geometric	mean) µg/l	BCRL	BCRL	ž	BCRL	BCRL	1.8-3.1 (2.4)		\$	010 010	BCRL	BCRL BCB:	BCRL	BCRL	¥	ž	.	\$ \$\$
K Area. Page 10 of 6	Well 04013 Frequency of Range		0/1 0/1	0/1	≨	0/1		9/6	į	£		0/1				≨	¥	¥×.	\$ \$ \$
r of the Western Study A	(geometric		BCRL BCRL	BCRL	ž	BCRL	DCKIL	0.14 (0.04)	ă	DCRL	BCRL		BCRL	BCRL	DCNL PCB1	BCKL	BCRL	BCRL 13 (4.4)	BCRL 28-67 (29)
onlined Aquiter of	Well 04010 Frequency of Range Detections		0/2 0/2	0/5 7	<u> </u>	£/0 1/0		•	170		0/4	0/3	6/0	0/4	<i>.</i>	26	٥/1	6/1 6/1	
Results for the Unco	N4007 Range (geometric mean) µg/l	ā	BCRL PC	Z A	į	BCRL	i a Da		BCRL		BCRL	BCRL	BCR.	BCKL	7.2 (1.8)		BCRL	BCRL 14 (3.5) BCRL	BCRL 26-48 (25)
Individed Analytical	Well 04007 Frequency of Range Detections	2/0	0/2	£ \$		0/3 0/3	. 0/5		6/3		0/4 0/4	6/0	0/3	0/4	1/4	,		0/4 1/4 0/4	0/4 3/4
Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 10 of 66.		Organicalifur Compounds Herbicide Related Chlorophenylmethyl sulfide	Uniorophenylmethyl sulfone Chlorophenylmethyl sulfoxide	Organonistoren Compounds Caprolactum	Ortenochesphorous Compounds. GB - Arch Releich	Dissopropylmethyl phosphonate Dimethylmethyl phosphonate	DECE	Semivolatile Halogenated	Hexachlorocyclopentadiene	Organish Periodes	Akarin Dieldrin	Z E	Entrin	Isodrin	Arkenik	Mercurx	ICP Marit	Chronium Chronium Copper	Zinc

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

148/1 = micrograms per liver

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		Study Are
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	Well Frequency of Detections	Well 04014 of Range (geometric	Well Frequency of	Well 04015 of Range (geometric	Well Frequency of	Well 04016 of Range (geometric	
) P.W.	Detections	mean) με/λ	Detections	mean) µg/l	
Volutie Halosenated Organic Compounds	뤽						
1.1 Dichloroethane	0/4	TA CA	;				
1,2 Dichloroethane	7/0	rent Post	1/0	BCRL	20	i a Car	
1.1 Dichkroethylms	, ,	BCKL	- -	BCR1.	270	DCNL DCn:	
1.2 Dicklossykulan	c/n	BCRL	0/1	BCD1	C/o	BCKL	
The Desirence in years	₹	ž	×	DC.N.C.	7/0	BCRL	
I.I.I Irichlorocthane	0/4	RCRI		\	≨	ž	
1.1.2 Trichloroethane	7/0	200	1/0	BCKL	6/0	RCBI	
1,1,2,2 Trichloroethana		14 A 15	1/0	BCRL	0/3	PCE.	
Carbon tetrachloride	7/0	(a) or	≨.	≱	≨	NA NA	
Chlorobenzena		BCKL FOR	1/0	BCRL	צ	1874	
Chloroform	* 6	BCKL	0/1	BCR1		DCAL.	
T12 Dichling while	7/0	BCRL	0/1	1406		BCKL	
Terrent Company	7/0	BCRL	0	To Di	c/o	BCRL	
red achioroethylene	0/4	BCRL		DCRL PCB:	6/0	BCRL	
Irchloroethylene	0/4	BORT		BCKL Post	673 -	BCRL	
)	1/0	BCKL	6/3	BCRL	
Methylens Chloride	0/4	BCRL	0/1	E S	2		
Volumber Headerschame					clo	BCKL	
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL							
Dicyclopentadiene	2/0	2		į			
Methylisobutyl ketone	7/0	BCRL	1/0	ECK.	1/0	BCRL	
Volatile Aromatic Organica				2422	1/0	BCRL	
Benzene	7/1	****	;				
Ethylbenzene	. 2	(0.34)	. (0	BCRL	12	1503	
m-Xvkre		BURL	- -	BCRL	2	(7:1)	
o and n. Xulena	* 1	BCXL	70	BCRI		DCRL.	
Service of the servic	*/0	BCRL	6/1	10/0	C o	BCKL	
Iouche	7/0	BCRL		DOM:	5/0	BCRL	
			1	BCKL	0/2 0/2	BCRL	
Ortanspullur Compounds						!	
Musterd Acont Releval							
1,4 Oxathiane	7/0	Š					
Dithiane	0/2	BCRL	; ;		0/1	BCRL	
					5	BCRL	

NA == Not Analyzed
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(mean) == Geometric Mean including value for BCRL data
µg/l == micrograms per liter

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			ange (geometric		BCRL
	12 of 68.	Well 04016	Renge		EQ £
	Page 1	Well	Frequency of Range (geometric		1/0
	Study Are			1	
	he Western	15	mem) ug/		BCAL
	t p reynb	Well 04015			
	onfinad Aq	F	Detection		1/0
	Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquitor of the Western Study Area. Page 12 of 66.	(reometric	Detections mean) µg/l Detections mean) µg/l		BCRL BCRL
	Nesults	Well 04014	, Ĕ		
	tor Analytica	Wel	etections		0/2
	Oundwate	ιĒ			
	12.4-1 Summary of G			뇀	Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone Chlorophenylmethyl sulfoxida
	4-1 Sum			Ortogrand Med	nylmethy nylmethy nylmethy
The state of the s	Table WSA 2			Organisation Compounds, Herbicide Related	Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone Chlorophenylmethyl sulfonide
			1	đ X	•

Organistic Comments						mean) µVi	
Herbickle Related							
Chlorophenylmethyl sulfide	2/0	BCRL	0/1	Ž,	:		
Chlorophenylmenyl sulforide	0/2 6/2	BCRL	0/1	BCRL		BCR L	
The second of th	7/0	SCK.	1/0	BCRL	0/1		
A CONTRACTOR A CONTRACTOR							
Caprolaciam	17	740 (740)	ž	\$	ž	;	
Ortanophosphoress Compounds.				:	<u>\$</u>	₹	
GB - Arent Related							
Diisopropylmethyl phosphonate	6/0	ja Ja	;				
Dunchylmethyl phosphonate	6/0	BCRL	56	1 52	2/0	BCRL	
1000	***	•	;	DCRL	0/2	BCRL	
	• /•	6.2-16 (12)	6/6	20-4,3 (3.3)	77		
Semirulatile Halogenated					cir	0.02-1.0 (0.87)	
Octanic Compounds							
Hexachlorocyclopentadiene	6/3		ž	į			
Oxxxochlorine Pesticides			٤	£	0/2	BCRL	
Aktin	3						
Diektrin	4/0	BCRL	1/0	BCRL	ν,		
LCCE	4,0	ECR.	1/0	BCRL		BCKL Kali	
100	*/0	BCKL	1/0	BCRL	30	BCR.	
Entrin	7 .	BCKL	0/1	BCRL	; c	BCKL	
Isodria	4/0	BCRL	0/1	BCRL	ניס	BCKL	
	*/0	BCRL	1/0	BCRL	56	ECK!	
Arenic	6/3	BCRL	ž	***	C/o	BCKL	
Mercury	1/0	16.70		Ę	2/0	BCRL	
	• (5	DCXC	£	≨	ž	×	
L. C. Mark						•	
Cedmium	6/3	BCRL	*	11			
Chromium	1/3	12 (4.0)	. ≨	£ 3	Z/0	ECRL	
Copyet	0/3	3CRL	\$	<u> </u>	2/0	BCRL	
7,00	0,0 2,0	BCRL	₹	₹ ≵	22	8.0 (4.0)	
	3/3	22-55 (35)	ž	ž	1/2	150 74	
						(1) 001	

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

48/1 = micrograms per liter

WSA 2.4-1/WSA-1

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	Well Frequency of Detections	Well 04019 of Range (geometric as mean) µg/l	Well Frequency of Detections	Well 04020 • of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 04021 of Range (geometric	Well Frequency of	Well 04022 of Raige (geomic
Yolstile Halogensted Organic Compounds	-5						anonana.	mean) µg/1
1.1 Dichloroethane		*	ž	;				
1,2 Dichlorocthane	ž	\$ \$	\$	₹ :	9/0	BCRL	9/0	ופטמ
1,1 Dichloroethylene	1	<u> </u>	≨ ;	≨ ;	9/0	BCRL	9/0	בים בים
1,2 Dichloroethylene	£ 2	£	≨ ;	≨	9/2	BCRL	9/2	DCKL
1.1.1 Trichlorochane	£ <u>\$</u>	Ž :	≨.	Ź	0/2	BCR.	9/1	2.0 (0.33)
1.1.2 Trichlomethans	<u> </u>	≨ ;	₹	₹	1/6	0.08 (0.16)	C/1	2.1 (0.42)
1122 Trackling	Ž :	ž	≨	Ź	· *	(51.0)	0/0	BCKL
Carbon remarks.	≨ ;	ž	ž	₹	2.5	4.1 (0.18) 6.4 (6.4)	9/0	BCRL
Caroon activities	0/1	BCKL	0/1	Brri	• • • • • • • • • • • • • • • • • • •	0.4 (0.4)	≨.	ž
Chlorobenzene	1/0	BCRL	1/0		C/0	BCKL.	0/4	BCRL
Chloroform	0/1	BCRL	2	1000	9/0	BCKL	9/0	PCRL
T-1.2 Dichloroethylene	0/1	la Je		DCRL Boss	3/0	1.9-2.5 (1.1)	4/6	06.22 /10
Tetrachlorocitylene	1/0		7	BCKL	0/4	BCRL	1/0	(0.1) 4.4 10.01
Trichloroethylene		PCR.	1/0	BCK.	9/0	BCRL	. 9/0	DCAL
	5	DUNE	0/1	BCRL	9/9	6.6-28 (16)	\$/\$	44 14 (0 0)
Methylene Chloride	ž	Ž	ź	ž	:	•		(6.6) 01 - 22
	•	<u> </u>	٤	≨	9/0	BCRL	9/0	RCP.
Valetile Hydroxarbana							•	TWO
Dicyclopentadiene	2	M.	-	;				
Methylisobutyl ketone	≨	₹ ₹	£ 2	≨	2/0	BCRL	0/1	BCRL
		:	<u>\$</u>	٤	1/0	BCRL	ž	£
Volatile Aromatic Organica								•
Benrene	1/0	EC.	1/0	100		:		
Ethylbenzena	ź	N.	5 2	DCAL	c/o	BCR.	2/2	5.0-7.1 (2.4)
m-Xylene	1/0	EC.a.	≨	≨ }	0/2	BCRL	0/2	RCP!
o and p-Xylene	1/0	200	7.0	BCKL	9/2	BCRL.	0/2	i a Cal
Toluene		DCAL	7	BCRL	0/2	BCRL	2	To the second
	1/0	BCKL	1/0	BCRL	0/2	BCRI.	() ()	
Organistics Commonade							c/o	BCKL
Madad Ages Related								
14 On achiere	2	•	į					
Dithine	€ ≥	\$ \$	≨;	≨ ;	1/0	BCRL	ž	M
	Ę	<u> </u>	£	≨	1/0	BCRL	≨	₹.

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

Projectory of Range (geometric Frequency of Range (geometric Requency of Range (geometric Range	Froquency of Range (geometric Frequency) Range (geometric Freq										
The color of the	For the part Particular P		Well Frequency of Detections	04019 Range (geometric mear) µg/l	Well Frequency of Detections	04020 Range (geometric mean) µg/l	Well Frequency of Detections	04021 Range (geometric	Well Frequency of	04022 Range (geome	ı
1 1 1 1 1 1 1 1 1 1	Second No. N	4						mean) pg/1	Detections	mean) µg/l	ı
Section No. 1, 1975 Sect	1	i sulfide	Ź	***	į						
Section No. 1975 Section	Component No. 1975 Component No. 1975	d sulfone	₹	\$ 7 2	≨:	Ź	1/0	lava	į		
County C	Charles	d sulfoxide	₹	£ £	≨	≨ ;	0/1	SC E	≨ ≥	≱:	
NA	Marcheling Mar	nds			<u> </u>	ž	0/1	BCRL	₹	2 2	
100 (1100) NA	1100 (1100) NA	!	\$	\$	Ž	á				•	
Adiene NA NA NA NA NA 072 BCRL NA NA NA NA 073 BCRL NA NA NA NA NA 073 BCRL NA	Address NA	ntounds.			•	٤	1/1	1100 (1100)	\$	₹	
M. M	Adiane M.	phosphonete	ž	ž	2	V.	!				
## PCRL 0/1 BCRL 0/2 0/3 BCRL 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2	O	and	٤	ž	Ź	₹ ≵	700	BCRL	ź	Ź	
M. M	MA NA NA NA NA NA O/3 BCRL NA NA NA NA NA O/3 BCRL NA NA NA NA NA O/3 BCRL NA NA NA NA NA NA O/3 BCRL NA		1/0	BCRL	1/0	Š	• 15	BCKL	\$	Ź	
M	No. No.	Semivolatile Halogenaied			•	DCK.	0/2	BCRL	7/0	BCRL	
Mark	N	.									
No. No.	Mark	ntadiene	¥	ž	\$	Y.	!				
K. K	N.	a				£	6/3	BCRL	ž	ž	
No. No.	N. N. N. N. N. N. N. N.		₹	2	774						
## BCRL ## FF F	Mark		Ž.	2	₹ ≵	≨ ≵	6/3	BCRL	474	;	
	NA		≨ :	ž	ź	\$ \$	25	BCRL	. ≨	£ ź	
HEALL NA	NA		£ 3	≨ :	Ź	. ≨	5/0	BCRL	≨	. ≨	
Mark	NA N		! ?	\$ \$	≨ ≨	£ 2	5/0	BCRL	≨ ≵	Ž	
N	NA NA NA NA NA NA NA NA		Ź	**	: ;	<u> </u>	6/3	BCRL	≨	\$ \$	
N	NA N)))	٤	≨	≨	6/3	BCB!	***	į	
NA N	NA N		Į	¥	2	\$	i	Ì	٤	≨	
	NA N					•	1,0	BCRL	£	ž	
NA NA NA NA NA NA NA NA	NA N		₹	¥	***	į					
NA N	NA N		£	. ≨	£ 3	≨;	5/0	BCRL	**	•	
NA NA NA NA BCRL NA NA NA 0/3 BCRL NA NA 0/3 BCRL NA NA 2/3 76-110 (59) NA	NA N		₹	2	<u> </u>	≨ :	0/3	BCRL	\$ \$	≨;	
NA NA NA 2/3 76-110 (59) NA	NA NA 0/3 BCRL NA NA 1/3 BCRL NA NA 2/3 76 - 110 (59) NA including value for BCRL data		₹	3	<u> </u>	≨ :	6/0	BCRL	<u> </u>	≨ ;	
NA 2/3 76 - 110 (59) NA	ed Reporting Limits an including value for BCRL data		¥	*	£ ≨	≨:	6/0	BCRL	S 3	≨ :	
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	Well Frequency of Detections	Well 04023 of Range (goometric	Well Frequency of	Well 04024 of Range (geometric	Well Frequency of	Well 04025 of Rango (geometric	Well	Well 04026
W. F. C. S.		, J. J. C.	Detections	mem) µg/l	Detections	mean) µg/l	Detections	nange (geomic. mean) us/i
Yolalik Halogensky Organic Compounds	श्च							
I.1 Dichlorocthane	9/0	Id/Ja		į				
1,2 Dichloroethane	9/0	DCD!	0/4	BCRL	0/1	BCR.	MA	ż
1,1 Dichloroethylene	y /0	DCR.	1/4	0.78 (0.20)	1/0	BCBI	٤ ۽	≨
1,2 Dichloroethylene		ECK!	520	BCRL	5	Test a	≨ ;	Ź
1.1.1 Trichloresthane	*/0	HCKL	0/1	BCRL		DCAL PORT	≨	ž
1.2 Trichlorathan	9/0	BCRL	0/4	BCPI		BCKL	Ź	2
1 1 2 Trial	9/0	BCRL	0/4	מלאלים ב	1/0	BCRL	₹	. <u>.</u>
Contract Inchioroginane	₹		2	DCK.	I/o	BCRL	2	£ <u>\$</u>
Carbon letrachloride	0/2	BCB1	<u> </u>	£	≨	ž	* * *	S ;
Chlorobenzene	9/0	BC01	c/o	BCRL	2/0	BCR1.	<u> </u>	≨ }
Chloroform	4/4	DCRU OCCU	C/0	BCRL	0/2	1000	1/0	BCRL
T-1,2 Dichloroethylene	2 7	0.0-2.4 (0.89)	0/2	BCRL	20	DCAL	1/0	BCRL
Tetrachlaroethylene	7/0	BCR	0/4	BCR1.	•	BCKL.	0/1	BCRL
Trichlynosthylen	9/0	BCRL	0/2	a Ja	5 5	BCK.	0/1	BCRI
21121611222	9/9	6.6-12 (8.8)	0/5	300	7/0	BCRL	0/1	BCR.
Methylene Chloride	2				7/1	2.4 (1.2)	0/1	BCRL
	9/0	BCRL	0/4	BCRL	0/1	i a Ca	;	
Volutile Hydrocarbons					<u>;</u>	DCNE	£	\$
Dicyclopentadiene	ć							
Methylisobutyl ketone	\$ ₹	BCK!	1/0	BCRL	ž	ž	*	į
;		٤	1/0	BCRL	Ź	≨	٤ ۽	≨ :
Voletile Aromatic Organica						•	Ş	≨
Benzene	5 /1	600	;					
Ethylbenzene	\$/ 0	10 (2.0)	7/	5.5 (1.4)	0/1	PCP!	Š	
m-Xylene	\$ \d	BCKL	0/3	BCRL	₹	NA		BCRL
o and p-Xylene	7/0	BCKL BOS:	7/ 0	BCRL	1/0	100	£	≨ ٍ
Tolucie	7/0	BCKL 1001	7 /0	BCRL	0/1		1/6	BCRL
	<i>(/</i> a	BCKL	0/4	BCRL	1/0		1/0	E
Orrangulfur Commonwel					•	DCAL	1/0	BCRL
Musterd Agent Related								
1,4 Oxathiane	2	*	:					
Dithiane	≨	£ £	7,6	3 CS	Ž.	ž	2	3
		•	•	BCKL	£	£	ź	₹ ≵

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NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mcan) = Geometric Mean including value for BCRL data
18/1 = micrograms per liter

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State Comment Commen	Chicopheny methy sulfide	Size Relating the Communitation of Size Relating to the Size Relating to t		Well Frequency of Detections	Well 04023 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 64024 of Range (geometric ns mean) us n	Well Frequency of	Well 04025 of Range (geometric	Well Frequency of	Well 04026
Macooperaylanthy sulface	Decorption of the control of the c	Decorption of the content of the c	Oceanstulfue Commounds					Detections	mean) µg/l	Detections	mem) με/
Discreption	Maintenty militide	Discreption	Herbride Related								
Discrepted plating No. N	Discription Name	Discription No. No	Chlorophenylmethyl sulfide	ž	¥.	į					
Description	Description of the control of the	Descriptory	Chiorophenylmethyl sulfone	Ž	\$ 3	۲/ ₀	BCRL	ž	MA	;	
Pack	Control of the Cont	Section Sect	Chlorophenylimethyl sulfoxide	NA.	<u> </u>	1/0	BCRL	Ž	٤ ۽	≨ :	≨
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drin M. M. O/3 BCRL M.	drin NA NA 0/3 BCRL NA NA NA 0/3 BCRL NA	drin NA NA 0/3 BCRL NA NA NA 0/1 BCRL NA NA NA 0/3 BCRL NA NA NA NA BCRL NA NA NA NA BCRL NA	Jon	≨ ≥	Ž	6/3	PCR.	Žá	≨;	₹	. ≨
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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 17 of 68.

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	Well Frequency of Detections	Well 04027 of Range (geometric 18 mean) µg/l	Well Frequency of Detections	Well 04028 of Range (geometric ns mean) 1197	Well Frequency of	Well 04029 of Range (geometric	Well Frequency of	Well 04030 of Range (seconds
Volstik Halokensted Organic Communication	4				Detections	mean) µg/l	Detections	mean) µg/l
1.1 Dichloroethene	3							
1.2 Dichloroethane	6/0	BCRL	≱	NA.	3			
1 Dichtscarthal	6/2	BCRL	ž	* 2	7/0	BCRL	0/4	Ta-Ja
1.2 Dichlocatch II.	0/2	BCRL	2	<u> </u>	7/0	BCRL	0/4	J. S.
1 1 Tribition	≨	₹	*	٤ ۽	5	BCRL	5	BCKC
to the state of th	0/3	BCP!	£ ±	٤;	≨	ž		BCKL
1.1.2 Inchlorochane	0/3	BCB1	≨ ;	≨.	0/2	B C36	1/1	6.0 (6.0)
1,1,2,2 Trichloroethane	Y.	Z V	≨ ;	ž	0/2	BCBI	*/-	1.0 (0.25)
Carbon tetrachloride	5.0	≨ }	≨	ž	Ž	ארער אוא	0/4	BCRL
Chlorobenzene	7 7	BCKL	١/٥	BCRL		≥ §	≨	≨
Chloroform	7.0	BCR.	1/0	BCRI.		ECK.	0/2	BCRL
T-1.2 Dichlomethylens	• /o	BCRL	0/1	PCRI		BCKC	0/2	100
Tetrachlorogiesten	0/4	BCK	1/0	I a Ja	C/0	BCR.	3/5	22.33 (1.3)
Trichlocetholone	0/4	BCKL	1/0	Ta Da	6/3	BCKL	3/4	10.17
	9/4	BCRL	0/1	ECE.	5,5	BCRL	0/2	PCP1
Methylene Chloride	1				c/o	BCRL	5/5	120-260 (190)
	6/0	BCRL	≨	*	0,0			(000)
Volstils. Hydrocarbons				•	7/0	BCKL	0/4	BCRL
Dicyclopentadiene	2		į					
Methylisobutyl ketone	0/1	BCP!	≨ ≵	₹:	≨	2	6	
Volatile Ammatic Occanica			٤	₹	½	Ž	7/0	BCK!
Bearing A. C. College								T T
Fibelbasses	9/4	BCRL	1/0	ıaça	;			
m. Yellow	0/2	BCRL	. A	מכאר אני	1/3	3.0 (1.0)	1/6	30.00
o and a Volum	0/4	BCRL	1/0	\$ 2	0/2	BCRL	0/2	2.0 (0.4%)
Tologo	0/4	BCRL		DC81	C/0	BCRL	9/0	DCAL.
	9/4	BCRL		DCAL DCB1	50.	BCRL	9/0	PCAL.
,			•	DAL	1/3	1.5 (0.50)	9/0	DCM.
Missard Acers Delecal							1	PCAL
1 d Overhing								
Dithiane	7/0	BCRL	ž	€	A X	ž		
	1/0	BCRL	≨	≨	. ≨	€ ≵	7,0	BCKL
						•	1/0	BCRL

NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data
µg/l = micrograms per liter

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Language Color BCRL	International components		Well Frequency of Detections	Well 04027 of Range (geometric	Well Frequency of Detections	Well 04028 of Range (geometric	Well Frequency of	Well 04029 of Range (geometric	Well Frequency of	Well 04030
Part	Discreption to the following state of the fol	Oxxanosulfux Compounds.					Detections	mean) µg/l	Detections	mem) µg/l
Section Sect	Discreption planty aufficie 01 BCRL	Hartiside Related								
Company Comp	Decision	Chlorophenylmethyl rulfide	0/1	BCRI	ź	;				
Control	Decembration Dece	Chlorophenylmethyl sulfone	0/1	BCRL	\$	≨ ∶	Ź	₹	ć	į
Control 1/1 670 (670) N	Part	Chiocopnenylmethyl sulfoxide	0/1	BCRL	₹ ≵	Ž 2	≱ ∶	₹	55	BCPL BCPL
1/1 670 (670) NA	1/1 670 (670) NA	Ortanonivosen Compound				Ş	£	₹	0/1	BCRL
Propylinetryl phosphonate 0/2 BCRL NA NA NA NA NA NA NA NA NA NA NA NA NA NA	State Stat	Caprolactam	1/1	(01.0)	į					
A	Automounds		:	(0/0) 0/0	ž	≨	\$	714	;	
Part	December 0,2 BCRL	Oremorhamborous Compounds,						Ę	≨	ž
Propylinethyl phosphonate 0/2 BCRL NA NA 0/1 BCRL 0/2	Description	STATE OF THE PARTY								
The Hargement 1,000 1,00	Directlylimethyl phosphonate 0/2 BCRL NA NA 0/1 BCRL 0/2	Diixopropylmethyl phosphonate	0/2	2	;					
15 15 15 15 15 15 15 15	Alice Alic	Dimethylmethyl phosphonate	0/2	BCRL	≨ ≵	≨ ∶	1/0	BCRL	20	į
Hargement	A A BCRL NA NA O O O O O O O O O			•	<u> </u>	≨	0/1	BCRL	12	ECK!
It Hakernated	Schools School	Top	4/4	30 - 39 (34)	6/6	0.22 . 1.0 .0.40.		!	•	BLRL
Cities Pesticides	six Controlled 0/3 BCRL NA NA 0/2 BCRL 0/3 Asian 0/3 BCRL NA NA 0/2 BCRL 0/3 Asian 0/3 BCRL NA NA 0/2 BCRL 0/3 O/3 BCRL NA NA 0/3 BCRL 0/3 Adim 0/3 BCRL NA NA 0/3 BCRL 0/3 Adim 0/3 BCRL NA NA 0/3 BCRL 0/3 Adim 0/3 BCRL NA NA 0/3 BCRL 0/3 A 0/1 BCRL NA NA NA NA 0/3 A 0/1 BCRL NA NA NA NA 0/1 A 0/1 BCRL NA NA NA NA 0/1 B 0/3 BCRL NA NA NA 0/2 BCRL 0/3 <td>Semivolatile Halcaenared</td> <td></td> <td></td> <td></td> <td>(65.0) 0.1 - 5</td> <td></td> <td>0.46 - 0.71 (0.57)</td> <td>9/0</td> <td></td>	Semivolatile Halcaenared				(65.0) 0.1 - 5		0.46 - 0.71 (0.57)	9/0	
State December D	BCRL	Organic Compounds								!
Old BCRL NA NA Old BCRL Old	Schlicting Pexisting O/3 BCRL NA NA O/2 BCRL O/3	Hexachiorocyclopentalian								
No. Analyzed No.	Schleting Pesticides		6/0	BCRL	Ź	\$	Ş	į		
1	Main	Occupabletive Projection					• 15	NC KE	673	BCRL
in 0/3 BCRL NA NA 0/2 BCRL 0/3 BCRL NA NA 0/2 BCRL 0/3 BCRL NA NA 0/2 BCRL 0/3 BCRL NA NA NA 0/2 BCRL 0/3 BCRL NA NA NA 0/2 BCRL 0/3 BCRL NA NA 0/2 BCRL 1/3 13 (4.3) NA NA NA 0/2 BCRL 1/3 0/3 BCRL NA NA 0/2 BCRL 1/3 0/3 BCRL NA NA 0/2 BCRL 1/3 0/3 BCRL NA NA 0/2 BCRL 0/3 DCRL 0/3 BCRL NA NA 0/2 BCRL 0/3 DCRL 0/3 BCRL NA NA 0/2 BCRL 0/3 DCRL 0/	December	Akkin	٥/٠	iaJa	;					
Color	DE DE DE DE DE DE DE DE	Dieldrin	250	שראר. ביים	≨ ;	Ź	0/2	2	1	
Not Analyzed 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (27) 17 - 18 (28) 17 - 18 (27) 17 - 18 (28) 17 - 18 (27) 17 - 18 (28) 18 - 18 (28) 18 (OFF OFF <td>300</td> <td></td> <td>ב ב ב ב</td> <td>≨:</td> <td>Ź</td> <td>2/0</td> <td>PCR.</td> <td>5/0</td> <td>BCRL</td>	300		ב ב ב ב	≨:	Ź	2/0	PCR.	5/0	BCRL
Not Analyzed 17.5 13.1	March Marc	בסב .	20	בייור מייור	≨ ;	Ź	0/2	PC E	50	BCRL
IN O.73 BCRL NA NA 0.72 BCRL 0.73 O/3 BCRL NA NA 0.72 BCRL 0.73 BCRL NA NA NA NA 0.72 IMM NA NA 0.72 BCRL 0.73 BCRL NA NA 0.72 BCRL 1/3 13 (4.3) NA NA 0.72 BCRL 1/3 13 (4.3) NA NA NA 0.72 BCRL 1/3 13 (4.3) NA NA 0.72 BCRL 1/3 13 (4.3) NA NA 0.72 BCRL 1/3 12 27 - 58 (27) NA NA NA 0.72 BCRL 0.73 27 - 58 (27) NA NA NA 1.72 120 (58) 2.73	Action 0/3 BCRL NA NA 0/2 BCRL 0/3 BCRL NA NA NA NA 0/1 BCRL 0/3 BCRL NA NA NA 0/2 BCRL 0/3 BCRL NA NA 0/2 BCRL 1/3 13 (4.3) NA NA NA 0/2 BCRL 1/3 BCRL NA NA 0/2 BCRL 1/3 BCRL NA NA NA 0/2 BCRL 1/3 BCRL NA NA NA 0/2 BCRL 0/3 2/3 2/3 2/3 2/3 2/3 2/3 2/3 2/3 2/3 2	Endrin	20	PCB!	≨ :	≨	0/2	T T	6/3	BCRL
In the control of the	NA	Isodrin	6/0	BCRL	₹ \$	≨:	2/0		7.5	BCRL
Dot	Mathematical Math	A			٤	≨	0/2	BCRL	SS	200
MA NA	Secondary Seco	CARROLL	0/2	BCRL	ž	*	Ş		2	BLAL
LM NA NA NA O/1 LM NA NA O/1 LM NA NA O/2 LM NA NA O/2 LM NA NA O/2 BCRL O/3 BCRL O/3 BCRL O/3 BCRL O/3 AAAdyzed 27 - 58 (27) NA NA I/2 120 (58)	denium o/3 BCRL NA NA NA NA O/1 denium o/3 BCRL NA NA O/2 BCRL 0/3 pper o/3 BCRL NA NA O/2 BCRL 1/3 d BCRL NA NA O/2 BCRL 1/3 d BCRL NA NA O/2 BCRL 0/3 ECRL NA NA O/2 BCRL 0/3 BCRL NA NA O/2 BCRL 0/3 BCRL NA NA O/2 BCRL 0/3 1/3 27 - 58 (27) NA NA 1/2 120 (58) 2/3	Mercury	,			•	7/0	BCRL	5,0	BCRL
Lun 0/3 BCRL NA NA 0/2 BCRL 0/3 (4.3) NA NA 0/2 BCRL 1/3 (4.3) NA NA 0/2 BCRL 1/3 BCRL 1/3 BCRL 1/3 BCRL 1/3 BCRL 1/3 BCRL 0/3 BCRL NA NA 0/2 BCRL 0/3 NA NA 1/2 120 (58) 2.73	denium 0/3 BCRL NA NA 0/2 BCRL 0/3 pper 0/3 14.3) NA NA 0/2 BCRL 1/3 13 (4.3) NA NA 0/2 BCRL 1/3 BCRL 1/3 BCRL NA NA 0/2 BCRL 1/3 BCRL NA NA 0/2 BCRL 1/3 BCRL NA NA 0/2 BCRL 0/3 BCRL NA NA 0/2 BCRL 0/3 BCRL NA NA 0/2 BCRL 0/3 27 - 58 (27) NA NA 1/2 120 (58) 2/3	•		BCKL	£	ž	ž	MA.	÷	
denium 0/3 BCRL NA NA 0/2 BCRL 0/3 pper 1/3 13 (4.3) NA NA 0/2 BCRL 1/3 pper 0/3 BCRL NA NA 0/2 BCRL 1/3 md 0/3 BCRL NA NA 0/2 BCRL 0/3 c	denium 0/3 BCRL NA NA 0/2 BCRL 0/3 romium 1/3 13 (4.3) NA NA 0/2 BCRL 1/3 pper 0/3 BCRL NA NA 0/2 BCRL 1/3 ad 0/3 BCRL NA NA 0/2 BCRL 0/3 bc, 0/3 BCRL NA NA NA 0/2 BCRL 0/3 both Analyzed 2/3 27 - 58 (27) NA NA 1/2 120 (58) 2/3	KC Metals						•	1/0	BCRL
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Peper 6/3 BCRL NA 0/2 BCRL 1/3 C	pper 6/3 BCRL NA NA 0/2 BCRL 1/3 C/2 BCRL 1/3 C/2 BCRL 0/3 BCRL 0/	Chromium	2	13 (4 3)	٤3	≨ ;	2/0	BCR1.	5	į
*** O/3 BCRL NA O/2 BCRL 0/3 ***********************************	## 001 Analyzed 2/3 27 - 58 (27) NA NA 0/2 BCRL 0/3 ## Not Analyzed 120 (58) 2/3 ## Not Analyzed 120 (58) 2/3	Copper	6/0	RC81	£ 3	≨ :	2/0	ECE.	S =	BCKL.
\approx 2/3 27 - 58 (27) NA NA 1/2 BCRL 0/3 = Not Analyzed 1/2 120 (58) 2/3	** Not Analyzed 27 - 58 (27) NA NA 0/2 BCRL 0/3 ** ** Not Analyzed 120 (58) 2/3	per :	6/0	ECK.	٤ ۽	≨ :	2/0	BCR!	35	(4.7)
= Not Analyzed 1/2 120 (58) 2/3	= Not Analyzed 1/2 120 (58) 2/3	Zinc	2/3	27 - 58 (27)	\$ 2	≨ :	7/0	BCRL		ECK!
		Ħ			<u> </u>	≨	22	120 (58)	273	A SERL

(mean) a Geometric Mean including value for BCRI, data 48/1 a nucrograms per liter

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	035 Range (geomic	meen) µg/l		į	ECK!	BCRL	BCKL PORT	ECKL	BCKL	2.0 (0.50)	≨	BCRL	BCKL	1.0 (0.50)	≨ }	BCKL	8.7 - ZU (13)	BCRL			Ź	£			BCRL		BCRL	BCRL	BCR			2	₹ ≨	
	1 ≅ 7	Defections		0/4	*/0	**		*/	* *	! •	\$ 5	2 3	.	Y.A	5 3			0/4			≨ ∶	<		2	, i	*	~	4 ·	•				•	
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466.	A033 Range (geometric	mean) µg/i		BCRL	PCR.	ECRL	≨	BCRL	BCR1.	₹.	BCRI	BCR!	RCR1	BCRL	BCRL	BCRL	100	DCAL		ķ	Ž 2	Ę		270 (89)	PCP (Z.	BCKL	(0C0) C		•	ž	≨	
190																												-	•					
	We Frequency of Detections			0/2	0/2	1/0	Ź	0/2	0/3	Ź	6/3	0/3	0/3	0/3	6/0	0/3	0/2			¥N.	<u> </u>			173	0/2	, ,			1			£	ž	
Teble WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquiter of the Western Study Area.	14032 Range (geometric mean) µg/l		:	BCRL	BCRL	BCRL	≨	BCRL	BCRL	ž	BCRL	BCRL	BCRL	BCRL		7 - 4.3 (2.8)	BCRL			2	≨			3.7 (1.2)	BCRL	BCR!	BCR1.	BCRL				≨:	≨	
Her of 15	=															1.7								•										
confined Aqu	We Frequency of Detections			0/2	0/2	I/0	≨ ;	0/2	0/2	≨ ;	0/3	0/3	0/3	6/0	0 0 0	3/3	0/2			ž	ž			2	0/2	6/3	0/3	6/0				≨	٤	
for the Un	34031 Range (geometric mean) µg/l		5	BCKL	BCRL	₹ 4	(=	3 6	(6.75)	.	<u>.</u> ک		(7:1)	∂ =	J ((37)	7							. بـ	. بـ		_							
Results	2403.1 Range (1 mean		à	ב ב	₹ 2	<u>ء</u> 2	֓֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	ر د	?	ב ב	BCKL PCH:	ECK!	1.4-2.3 (1.2)		3 :	(/C)10- 11	DCRL			≨	2		-	BCKL	ECK.	BCKL	BCRL	BCRL			;	≨ ≴	<u> </u>	
T Analytical	Well 04031 Frequency of Rang Detections m		<i>(1)</i>	0/2	1/0	: ≰	2	10	7 4	\$ E	2 5	25	2 5	5/0	2 5	1	0/2			≨ ∶	<		,	· ·	,	n ,	~	~						
undwate	Freq	unds	_	-		,		, -			, ,		• <	-	~ د	1	0			Z .,	z		<	5 6	3 6	3	0/3	6			2	₹ ₹	:	
nary of Grou		Yolstile Halogenated Organic Compounds					45	**	'nc				9	}						,	·													
.4-1 Summ		enated Orga	1.1 Dichloroethane	1,2 Dichloroethane	1.1 Dichloroethylene	1.2 Dichloroethylene	1.1.1 Trichloroethane	1.1.2 Trichloroethane	I.1.2.2 Trichloroethane	Carbon terrachloride	zene	5	T-1.2 Dichlomethylene	Tetrachloroethylene	thylene		erid e	arbons	1	italiene	mentylisodulyi Ketone	Volatile Ammatic Organics		ne ne	}	}	9		Organishing Commonwell	Related	No.	<u> </u>		
WSA 2		ik Hibe	1.1 Dichle	1.2 Dichk	1,1 Dichk	1,2 Dісык	1,1,1 Tric	1.1.2 Tric	1,1,2,2 Tr	Carbon let	Chlorobenzene	Chloroform	1-1.2 Die	Tetrachlor.	Frichloroethylene		Methylene Chloride	Yolstile Hydrocarbons	in the second	Dicyclopentatione	reury iis oc	le Aromat	Benzene	Ethylbenzene	m-Xylene	A March Towns	Tolimo		Santhur Co	Mustard Agent Related	1.4 Oxachiane	Dithiane		
Teb		Volsi	_					-	_	•	<u> </u>	J	_	;	_		Methy	Yolsti	-	ב נ	•	Volati	ď	ធ	£		<u>ځ</u> د	=	Oreson	Musta	1.4	ភ		

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(maxan) = Geometric Mean including value for BCRL data

µg/1 = micrograms per liter

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Table WSA 2.	4-1 Summan	of Grouns	Table WSA 2.4-1 Summary of Groundwater Analytical Results	al Results for the I	Incontined Aquit	he Western St	dy Area. Page 2	Page 20 of 66.		30.5	**
			Well Frequency of Detections	Well 04031 of Range (geometric ns mean) µg/l	Frequency Detection	Well 04032 of Range (geometric	Well Frequency of	Well 04033	Prequency	Well 04035	1
Occanosultur Compounds. Herbicide Related	Comounds.						Detections	mean) µg/l		mean) µ [/]	. 1
Chlorophe	Chlorophenylmethyl sulfide	-9 -9	ž	2	2	i					
Chlarophe	Chlorophenylmethyl sulfone Chlorophenylmethyl sulfone	one	≨ ;	Ź	₹	Ž 2	≱;	ž	ž	X	
Trado Santa	i yimemyi suil	oxide	≨	ž	≨	₹.≵	Ž \$	≨;	≨	£	
Ottervieren Conpound	Compound		;				<u> </u>	≨	£	≨	
A TONION	5		≨	Ź	\$	ž	Ž				
Orenwhamberous Compounds. GB - Ascut Related	rous Compour	1					<u> </u>		≨	≨	
Disopropy Dimethylm	Dissopropylmethyl phosphonate Dimethylmethyl phosphonate	shonate nate	0/1 0/1	BCRL BCRL	0/1 0/1	BCRL	0/1	BCRL	ž	Ž	
DBC			1/3	0.67 (0.22)		בראון	I/o	BCRL	ž	₹	
Semivolotile Halogenated	lorenated					BCKL	6/3	BCRL	6/0	BCRL	
Ottanie Comcounds	rurads									1	
ries schloso	Hexachlorocyclopentadiene	9	0/2	BCRL	0/2	RCRI	Ş	ļ			
Organochioring Pessicides	Pesticides						7/0	BCRL	ž	ž	
Aktrin D. 14			2/0	BCRL	Ş	į					
DCE NE			700	BCRL	70		2/0	BCRL	ž	ž	
DOT			0/2 0/2	BCRL BCRL	0/2	BCRL	0/2		Źź	Ź	
Endrin Isodrin			0/2 0/2	BCRL BCRL	7/0 0/0		2/0 2/0	BCRL	≨ ≨ 2	₹ ₹ \$	
Arsenic			2/0	BORL	7/0	ECAL.	C	BCRL	\\ \	₹	
Mercury			£	ž			7/0	BCRL	ž	£	•
ICP Metals											
Chronium			200	BCRL	0/2	BCRL	200	Ē	į		
Copper			7,0		200	BCRL	0/2	BCRL	Ž Ž	Źź	
Zinc			2/2	BCRL 34 62 440	: 2:	22 (11)	0 7 0 7 0	BCRL FCB		£ ≴:	
Ħ	Not Analyzed		i	(05) 70 - 60	7/1	50 (25)	172	(20)	≨ ≨	≨ ≱	
BCRL = Belov	Below Certified Reporting Limits Geometric Mean including units	Porting L	imits	,						<u> </u>	
Ħ	micrograms per liter	r Summer	micrograms per liter	dala							

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(4) A Copy Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 21 of 86. 1 1 1.0 T. 多 *** *

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	Well Frequency of Detections	Well 04036 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 04037 of Range (geometric	Well Frequency of	Well 04038	Well Frequency of	Well 04039 of Range (recomic
Yolstike Halpgensted Organic Commonwell	-				Caractions.	mean) µg/l	Detections	mean) µg/l
1,1 Dichloroethane		i						
1,2 Dichloroethane	6/2	BCRL	0/2	BCRL	\$/0	i a di	:	
1.1 Dichloroethylene	6/0	BCKL	1/5	1.0 (0.20)	%	DCRL PCP1	0/2	BCRL
1.2 Dichlocathylene	7/-	5.0 (1.3)	* /0	BCRI	(v	BCKL	o/s	BCRL
1 1 Trichlogathan	0/4	BCRL	0/4	PCP.	77	7.0 - 9.8 (8.1)	5/5	20-8.0 (5.2)
1 1 3 Television	2/2	10 - 12 (4.4)	3/5	200 1 1 00 0	1/4	1.3 (0.33)	0/5	BCP1
1.1.2 Inchloroethane	0/5	BCRL		1.0 (0.00)	5/3	10-27 (18)	5/5	0 1.74 U.S.
1,1,4,4 Iffehloroethane	≨	2	3 5	1.0 (0.20)	0/2	BCRL	2	((1) \$7.0.0
Carbon tetrachloride	6/0	BCRI	5 5	₹	₹	₹	32	ECKL.
Chlorobenzene	0/5	Jacob Branch	6/0	BCRL	0/2	BCRI	\$	≨ }
Chloroform	*	10 4 0/1 W	c/0	BCRL	0/5	PCP.	* * *	BCK
T-1,2 Dichloroethylene	. 170	4.0-0.0(1.9)	0/5	BCRL	0/2	PCP!	C/0	BCK.
Tetrachloroethylene	. Y/O	BCRL PCR:	0/1	BCRL	1/0	Ece.	c);	BCR.
Trichlocoethylene	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DCKL 10 (9.00)	0/5	BCRL	5/0	1 o C	≨ :	¥
		10 - 00 (21)	3/5	3.0-4.4 (3.8)	5/5	11.38 (2)	S :	1.0 (0.20)
Methylene Chloride	9/5	i a. Ja	Š	,	1	(17) 05-11	5/5	10-34 (21)
,	ļ	DCNE	c/n	BCRL	\$/0	BCRL	\$/0	
Voluile Hydrocarbons						!	Si	BCKL.
Dicyclopentadiene	₹	NA	ź	•				
Methylisobutyl ketone	₹	\Z	₹	≨	1/0	BCRL	₹	\$
Volatile Arometic Organica				•	-	BCKL		
Benzene	0/5	I a Da	37.0					
Ethylbenzene	0/2	BCR.	C/0	BCKL.	0/4	BCRL	20	10/0
m-Xylene	0/2	BCRL	(v)	ECK!	0/4	BCRL	200	DCKL DCB:
o and p-Aylane	0/2	BCS	(V	BCK.	0/4	BCRL	20	J. C.
lotuene	9/2	BCRL	0/S	BCRL PCR1	7/0	BCRL	0/3	BCR
Organization Communication			•	Tark to	4/0	BCRL	6/0	BCRL
Mustry Aten Related								
1.4 Oxathiane	***	į						
Dithiane	≨ ≵	\$ \$	≨:	ž	0/1	BCRL	á	į
	•	§	٤	≨	0/1	BCRL	₹.	E 2
							•	٤

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

Frequency of Range (Scoreneric Frequency) Frequency of Range (Scoreneric Frequency)) Detections Range (Scoreneric Frequency of Range (Scoreneric Frequency of Range (Scoreneric Frequency of Range (Scoreneric Frequency of Range (Scoreneric Frequency)) Detections Range (Scoreneric Frequency) Range (Scoren	Organization Compounds. Herbicide Related		1						
Precional Compounds		water Analytica	Results for the Uno	onlined Aquile	r of the Western Stud		•		
Excision Particion Parti		Well (Frequency of Detections	Nange (geometric	Well Frequency of	l 94037 Range (geometric	Well	04038		11 04039
No.	Organosulfur Communds. Herbicide Related		mem) µVI	Detections	mean) µg/l	Detections	Range (geometri	Prequency	Range (geomi
Characteristical control of the co	AIN LANGE TO SELECT						1/24 (12311)	Detections	mean) µg/l
Chical property and property Chical property	Charachenettes	:							
Charaphasin Manager Ma	Chlorophenylmenyl suffer	Į:	₹	ž	ž	į			
Charles Carponage	Chlorophenylmethyl gulforide	≨ ;	Ź	≨	S 3	1/0	BCRL	Ž	3
Depoilezen Compound Continuenta Continuent	phiroline if in a little and i	≨	₹	≨	§ 2	1/0	BCRL	. ₹	≨ ≩
Capolactan	Examination Compound				٤	1,'0	BCRL	₹	₹
State Stat	Caprolactam	ž	**	į					•
Comparison	•	1	<u> </u>	≨	ž	W			
	III I OODDOOD STAND COMPOUNDS. GB - Aron Relaised					•	Ž	₹	\$
Directly Unserby Priorphonate N	Dittopropylmethyl phosphonate	V	į						
School S	Dimethy Incthyl phosphonate	₹ ≨	₹ ₹	£ 2	\$;	0/1	RCR.	***	:
Details Islocanusca Details Islocanusca Details Islocanusca Details Islocanusca Details Islocanusca Details Deta	25	,,,		<u> </u>	₹	0/1	BCRL	₹ ₹	Ž 2
Description		0/4	BCRL	0/4	BCRL	770			\$
March Marc	mivolatile Helogenated				•	*/0	BCRL	6/0	BCRL
No.	Interior Compounds								
Sching Pesticides	Nexaction ocyclopentadiene	₹	ž	42	i				
Helin	zanschlering, Pesticides			<u> </u>	ž	1/0	BCRL	ž	*
Secondary Seco	Aldrin	**						•	5
Marine M	Dieldrin	\ X	≨ :	Ź	ž	1/0	į		
Main	900	. ≨	₹ 2	≨:		7.0	ECKL PCR	Ź	≨
No.		Ź	\$ ₹	≨ :	Ź	1/0	P. R.	≨.	≨
No.	I.e. A. C.	£	₹	≨ :	Ž.	1/0	NCR.	≨ ;	Ź
NA	H.C.C.C.	ž	≨	≨ ≵	≨ ∶	1/0	BCRL BCRL	≨ ≩	Ź:
NA	cnic	2	;		£	1/0	BCRL	₹	₹ \$
N		<u> </u>	\$	₹	₹	1/0	i	•	Ş
talis chromium NA N	KTRLX		*	5	;		DCKL	ž	ž
denium NA NA NA NA NA NA NA O/1 BCRL NA NA NA NA NA NA NA O/1 BCRL NA NA NA NA NA NA NA O/1 BCRL NA N	11 L.		;	٤	₹	1/0	BCRL	Ž	į
NA NA NA NA O/1 BCRL NA NA O/1 BCRL NA	Michally Committee						1	٤	≨
## NA	Ckunain	₹	ž	*	i				
MA NA NA 0/1 BCRL NA NA NA NA 0/1 BCRL NA	Chomium	ž	. ₹	\$ \$	٤ŝ	0/1	BCRL	٧×	:
NA N	Total Land	≨	ž	. ₹	٤ ۽	0/1	BCRL	<u> </u>	٤:
= Not Analyzed NA NA 1/1 BCRL NA 1/1 34 (34) NA	Zine	≨:	¥	. ≨	£ 3	0/1	BCRL	. ₹	£ 3
* Not Analyzed 34 (34) NA	2	≨	≨	. ≨	<u> </u>	1/0	BCRL	:≱	£ 3
					Ş	1/1	34 (34)	. ₹	٤;

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3CRL = Below Certified Reporting Limits

near) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

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1 Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 23 of 66. 200 1 **展** T. B. . E. 1

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0/5 BCRL 0/3 BCRL 0/3 CACCUS 0/3		Well Frequency of Detections	Well 04040 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 04041 of Range (geometric	Well Frequency of	Well 04042 of Range (geometric	Well Frequency of	Well 04043
Perior Compounds Perior					mean) pg/	Defections	mcen) µg/l	Detections	men) ue/
10.5 BCRL 0/5 BCRL 0/5 BCRL 0/5 BCRL 0/5 1/4 40.87 (4.1) 4/4 58.10 (7.0) 0/3 BCRL 0/5 1/4 40.87 (4.1) 4/4 58.10 (7.0) 0/3 BCRL 0/5 1/4 10.26 (13.1) 4/5 10.20 (12.1) 0/3 BCRL 0/5 1/5 10.26 (13.1) 4/5 10.20 (12.1) 0/3 BCRL 0/5 1/5 10.26 (13.1) 4/5 10.20 (12.1) 0/3 BCRL 0/5 1/5 10.26 (13.1) 4/5 10.20 (12.1) 0/3 BCRL 0/5 1/5 10.26 (13.1) 4/5 10.20 (12.1) 0/3 BCRL 0/5 1/5 10.27 0/3 BCRL 1/5 1/5 1/5 1/5 10.27 (39) 5/5 21.60 (37) 3/5 3.4.1 (3.6) 1/5 10.27 (39) 5/5 BCRL 0/1 BCRL 0/3 1/5 1/5 1/5 BCRL 0/1 BCRL 0/3 1/5 1/5 BCRL 0/1 BCRL 0/3 1/5 1/5 BCRL 0/1 BCRL 0/3 1/5 BCRL 0/2 BCRL 0/3 BCRL 0/3 1/5 BCRL 0/3 BCRL 0/3 BCRL 0/3 1/5 BCRL 0/5 BCRL 0/3 BCRL 0/3 1/5 BCRL 0/3 BCRL 0	Volstile Halogensterd Organic Com	pounds							
Columb	1,1 Dichloroethane	0/5	la	***					
### 4.5	1.2 Dichloroethane	\$/0	DC N.	כ <u>ר</u>	BCRL	6/0	RCP	Ş	
## 14	1.1 Dichloroethylene	7 9	BERE	0/2	BCRL	20	1000	c/o	BCRL
## 144 0.88 (0.21) 0.10 ## 175 BCRL 172 2.5 (11) 315 0.98 ## 154 0.88 (0.21) 0.10 ## 175	1.2 Dichturathalan	6/4	4.0-8.7 (4.7)	4/4	58.10 (7.0)		PCKL	0/3	BCRL
445 10-26 (13) 475 10-26 (23) 172 22 (1.1) 375 095 174 175 175 175 175 175 175 175 175 175 175	the Chairm Canagana	1/4	0.85 (0.21)		(a.r.) a.r.	c/o	BCKL	0/3	1208
1,5 3,0,3,1 (1,2) 0,5 10,20 (1,2) 0,3 10,20 (1,2) 10,2	L. I. I Trichlorocuhune	4/5	10-26 (13)	5/0 9/4	DCRL 10.70 (17)	7/1	2.2 (1.1)	3/3	0.95 - 1 6 /1 2)
NA	1,1,2 Irichlorocthane	2/5	3031 (13)		(71) 07-01	5/0	BCRL	20	(71) 0:1 - 6:2
## 0/3 BCRL 1/5 10 (3.4) NA	1,1,2,2 Trichloroethane	₹	NA (1.4)	c/o	BCRL	6/0	BCRL	2	
10 (2.0) 10 (2.0)	Carbon terrachloride	170	1 d 2 d	£ ;	Ž	₹	ž	2	DURL
## 1/3 SW	Chlorobenzene	S 6	BCKL PCRL	1/5	10 (2.0)	6/0	NC B	§ §	£
## 17.5 3.0 (1.0) 0/5 BCRL 1/7 0.56 (0.29) 0/5 0/5 BCRL 1/7 1.9 (1.9) 0/5 0/5 0/5 0/5 0/5 0/5 0/5 0/5 0/5 0/5	Chloroform	6/0	K.K.	1/2	1.7 (0.34)	2	18 (0 41)	7/5	BCKL
March Marc	T.12 Dichlomethylene	5/1	2.0 (1.0)	0/2	BCRL		(10.0)	5/1	13 (0.43)
9/5 BCRL 0/5 BCRL 171 19 (1.9) NA 5/5 10-72 (39) 5/5 21-60 (37) 3/5 3.3-4.1 (3.6) 2/2 2/2 2/2 (37) 3/5 3.3-4.1 (3.6) 2/2 2/2 2/2 2/2 (3.6) 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/	Transfer of the state of	7/0	BCRL	0/2	BCDI		0.00 (0.29)	6/3	BCRL
5/5 10-72 (39) 5/5 21-60 (37) 3/3 3.04.4 (3.7) 3/3 0/5 BCRL 0/5 BCRL 0/3 BCRL 0/3 NA NA 0/2 BCRL 0/1 BCRL NA 0/3 3/4 21-140 (8.3) 1/5 57 (11) 0/3 BCRL 0/3 0/5 BCRL 0/5 BCRL 0/3 BCRL 0/3 0/1 BCRL 0/5 BCRL 0/1 BCRL NA	Trick	6/5	BCKL	\$/0	PCP.	= ;	⊂.	Ź	`≨
NA	A P. C. A. C.	5/5	10-72 (39)	\$/\$	21.60 02.1	2/2	_	3/3	2.1-2.8 (2.4)
NA NA NA 0/2 BCRL 0/3 BCRL 0/3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		•		(AC) 00-14	3/3		272	2.5-2.7 (2.6)
NA NA 0/2 BCRL 0/1 BCRL NA 0/3 1/4 21-140 (8.5) 1/5 57 (11) 0/3 BCRL NA 0/1 BCRL NA NA	Metaylone. Chloride	0/2	BCRL	0/5	BCRL	0/3	12/2	Ç	
NA NA NA 0/1 BCRL 0/1 BCRL NA BCRL NA BCRL NA BCRL NA BCRL NA BCRL N/1 BCRL NA BCRL 0/1 BCRL NA BCRL 0/3 BCRL NA BCRL 0/1 BCRL NA	Valeule Hydrogarbons							c/o	BCRL
NA	Dicyclopentadiene	MA	3						
34 21-140 (8.5) 1/5 57 (11) 0/3 BCRL 0/1 BCRL 0/3 0/3 0/3 0/3 0/3 BCRL 0/3	Methylisobulyl ketone	£ 2	≨ ≩	0/2	BCRL	1/0	BCR!	Y	3
3/4 2.1-140 (8.5) 1/5 57 (11) 0/3 BCRL 0/3 0/5 BCRL 0/5 BCRL 0/5 BCRL 0/3 0/4 BCRL 0/5 BCRL 0/3 BCRL 0/3 0/5 BCRL 0/5 BCRL 0/3 BCRL 0/5 BCRL 0/3 0/1 BCRL 0/5 BCRL 0/3 0/1 BCRL 0/7 BCRL 0/3 0/1 BCRL 0/7 BCRL 0/7 NA	•	§	٤	1/0	BCRL	0/1	ECK.	٤	≨
3/4 2.1-140 (8.3) 1/5 57 (11) 0/3 BCRL 0/3 0/5 BCRL 0/5 BCRL 0/5 0/5 BCRL 0/5 BCRL 0/5 0/5 BCRL 0/5 BCRL 0/5 0/1 BCRL 0/7 BCRL 0/1 BCRL NA	Velatile Aremaise Organica								
0/5	Benzene	3/4	21110 (8.6)		;				
0/4 BCRL 0/5 BCRL 0/3 BCRL 0/4	Ethylbenzene	, v	(0.0) 0.1-1.7	C)	57 (11)	6/0	RCR.	2	
0/5 BCRL NA BCRL NA	m-Xykne	50	DCKL PCIII	5/0	BCKL	0/2	ECE.	2 5	BCKL BCKL
0/3 BCRL 0/3 BCRL 0/3 BCRL 0/3 0/3 0/3 0/3 0/3 0/3 0/3 0/3 0/3 0/3	o and p-Xylera	9/0	BCKL For:	0/2	BCRL	0/3	BCP!		EX.
0/1 BCRL 0/3 BCRL 0/3 0/1 BCRL 0/2 BCRL 0/1 BCRL NA 0/1 BCRL 0/1 BCRL NA	Totach	C/0	ECXI.	0/5	BCRL	6/0			ECK
0/1 BCRL 0/2 BCRL 0/1 BCRL NA NA NA MA N	•	C/0	BCKL	0/2	BCRL	1/0	100	5 6	BCRL
0/1 BCRL 0/2 BCRL 0/1 BCRL NA 0/1 BCRL 0/1 BCRL NA	Oceanosulfur Compounds.					1	Dene	6/0	BCKL
0/1 BCRL 0/2 BCRL 0/1 BCRL NA 0/1 BCRL 0/1 BCRL NA	Mustard Agent Related								
0/1 BCRL 0/1 BCRL 0/1 BCRL NA	1.4 Oxachiane	1/0	P.C.	1	,				
O/1 BCRL NA	Dithiane	0/1	BCRL BCRL	700		1/0	BCRL	ž	ž
			!	•	DCNL	1/0	BCRL	ž	Ž

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µgil = micrograms per liter

Well 04040 Frequency of Range (geometric Frequency of Range (geometric Frequency of Range (geometric Frequency of Range (geometric Frequency Stalent Compound) Substitution of the Stalent of the Stale	Well 04041 y of Range (geometric ns mean) µg/l BCRL BCRL BCRL BCRL BCRL BCRL BCRL	Well Frequency of Detections 0/1 0/1 0/1 0/1 0/1 0/1	Well 04042 1 of Runge (geometric as mean) µg/l BCRL BCRL BCRL BCRL BCRL BCRL BCRL BCRL	Frequency of Detections NA	Well 04043 of Range (geomic, ns mean) µg/l
tide Relegant of the companies of the co		0/1 0/1 0/1 0/1 0/1 0/1 0/1 0/1 0/1	Meen) µg/l BCRL BCRL BCRL BCRL BCRL	Detections Detections	mem) µg/l
becreate of the solution of th	BCRL BCRL BCRL BCRL BCRL	0/1 0/1 0/1 0/1 0/3	BCRL BCRL BCRL BCRL	222 2 2 <u>2</u>	
det opheny function and of the secretary sulfoxide of the secretary sulfoxide of the secretary sulfoxide of the secretary sulfoxide of the secretary subspicionate of the sulfer sulfoxibility of the sulfer	BCRL BCRL BCRL BCRL	0/1 0/1 0/1 0/1 0/1	BCRL BCRL BCRL BCRL	222 2 2 <u>2</u>	
protectan Compounds protection Redute the compounds Septembly the child phosphonate Redute the compounds Reduted Septembly phosphonate Reduted Septembly phosphonate Reduted the content of the	BCRL BCRL BCRL	0/1 0/1 0/1	BCRL BCRL BCRL	£	\$
prolaciam NA NA Edustriciaes Sopropylmethyl phosphonate NA N	NA BCRL BCRL	₹ 1/0 0/1 0/2	BCRL BCRL	ž 22	≨ ≨
superprinting the phosphonate NA	BCRL BCRL BCRL	₹ 1/0 6/1	BCRL BCRL	ž 22	
nethylacthyl phosphonate NA NA NA NA NA NA NA BCRL stile Hibacanased Controlled NA BCRL stile Hibacanased cachlorocyclopentadiene NA	BCRL BCRL BCRL	0/1 0/1	BCRL BCRL	2 2	ž
atile Hibaconied C.Cottigounds C.Cottigounds Acchiorocyclopentadiene NA NA MA NA	BCRL	0/1	BCRL	₹	į
atile Hibacoused Congrounds Cachlorocyclopentadiene NA NA Main NA	BCRL	6/0		, ,	≨≨
Albrine Pestivides And MA			BCRL	2/0	BCRL
Albrine Pestivides Andrin	TQ./Q	:	•		
karin Na Na N	Bear	1/0	BCRL	ž	ž
A A A A A A A A A A A A A A A A A A A	, a 2 d	į			
inin inin	BCRL	1/0	BCRL	ž	*
irin NA	BCRL	0/1		Źź	\$
\$ \$		1/0	BCRL	₹	£ 2
**	BCRL	66	BCRL	\\$:	\$ \$
	BCR.	Ş		£	£
Mercucia NA NA 0/1	i a d	7 :	BCRL	ž	£
		1/0	BCRL	ž	¥
¥	Į.				
N N	BCKL	1/0	BCRL	¥	™
≨ .	BCRL	7/0	BCRL FOR	€	\$ \$
X X	BCRL	1/0	ECKL By's'	≨:	Ź
B Not Analyzed	58 (58)	::	32 (32)	Ž 2	≾ :
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	** ***							
	Frequency of Detections	well 04044 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 04045 of Range (geometric	Well Frequency of	Well 04046	Wall Frequency of	Well 04047 of Range (reomic.
Yolatik Hatogenated Organic Compounds				à	Cerculous	mcen) µg/l	Detections	mean) µg/l
1.1 Dichlorocthane	5	200						
1.2 Dichloroethane	6/2	BCK.	6/3	BCRL	6/3	100	\$	
1.1 Dichlynoethylens	C c	BCK	50	BCRL	70	DCAL.	6/0	BCRL
1.3 Parkland to 1.	٥/٢	BCRL	2	1000	2 2	BCKL	<u>در</u>	BCRI
1.4 Dichloroethylene	น	3.0 (3.0)	272	9337 % ::	5/0	BCR	0/3	a Laure
1,1,1 Inchlorochane	1/3	0 83 (0 28)	7 (7	3.2-3.7 (3.4)	3/3	1.2-2.8 (1.7)	25	DCAL 1 2 2 2 2 2
1,1,2 Trichlorocurane	2	11 (0.26)	5/0	BCRL	0/3	PCRI	2 5	1.8-3.3 (2.3)
1.1.2.2 Trichloroethane		(0.33)	22	2.3 (0.77)	20	2000	5/0	BCRL
Carbon terrachlorists	\$	≨ ,	Ź	. Z	S W	מראני מיני	5,0	BCRL
Chlorokanana	6/3	BCRL	0/3	HCP!	S S	\$	≨	ž
Chlysoform	2		173	11 (0.16)	7/0	BCRL	2/0	BCR
The second	2	0.71 (0.24)	27.	(0.0) 1.1	6/0	BCRL	6/3	No.
1-1.2 Dichloroethylene	17	_	6/7	0.73-0.77 (0.30)	2/3	1.0-2.2 (1.0)	20	Tage of
I ctrachlorocity fene	3/3		- 2	2.8 (2.8)	Ź	` ₹	. X	DCAL
Trichloroethylene	3/3	17 4 4 (2.5)	5/2	2.6-4.8 (2.3)	3/3	23.3.1 (2.7)	5 5	Y
		?	3/3	3.7-4.9 (4.1)	3/3	2.9-3.2 (3.1)	S Z	3.0-3.3 (3.1)
Methylene Chloride	6/0	io. Ca	1				cic	3.8-4.9 (4.3)
)	DCAL	6/3	BCRL	6/0	BCRL	70	
Volatile Hydrocarbona								BCKL
Dicyclopentaliene	*							
Methylischutyl ketone	1,0	BCKL	1/0	BCRL	BCR!	D/O	;	
	1/0	BCRL	1/0	BCRL	2	DCR.	≨ ;	Ž.
Yelstile Aromstic Organica						Ş	٤	ž
Benzene	2							
Ethylbearens	c 6	BCKL	6/3	BCRL	2	1000	:	
m. X.clme	5/0	BCRL	6/3	2		BCKL BOSE	12	2.6 (0.87)
	6/2	BCRL	2	i a Da	c /o	BCKL	S	BCR1.
o and p. Aylene	0/3	PC'R.		DCRL non-	5/0	BCRL	0/3	1000
Toluche	0/3		5 6	BCKL	673	BCRL	20	PCP1
		DON	6/0	BCRL	0/3	120		BCR.
Organosulfur Contropunda.						Tuo.	ch	BCKL
Musicard Apone Related								
1,4 Oxathians	•	į						
Dithiane		ECK.	1/0	BCRL	ž	*	**	2
	•	DCAL	0/1	BCRL	₹	. ≱	£ 2	≨ :
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NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data
µg/l = micrograms per liter

			willings Aquition	Committee Aprilies of the Wostern Study Area. Page 26 of 66.	by Area. Page 20	s of 86.		
	Well Frequency of Detections	Well 04044 of Range (geometric us mean) µg/l	Well Frequency of Detections	Well 04045 of Range (geometric 13 mean) ued	Well Frequency of	Well 04046 of Runge (geometric	Well Prequency of	Well 04047
Organozulfur Communida. Harbiste Related					Netections.	meen) µg/l	Detections	mean) µg/l
Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone Chlorophenylmethyl sulfone	0/1	BCRL BCRL	0/1 0/1	BCRL	≨ ;	ž	ž	7
Orenonitaeen Compaund	1/0	BCRL	1/0	BCRL	£ £	2 2	2 2 3	£ £ £
Caprolactam	≨ .	ž	₹	* N	;			
Orthochorbotous Compounds, GB - Armi Related				<u> </u>	≨	ž	ž	¥
Disopropylmethyl phosphonate Dimethylmethyl phosphonate	0/1	BCRL	1/0	BCRL	ž	ž	ź	į
DECE	0/3	i a Ca	; ;	BCK!	≨	ž	₹.	\$
Semivolatile Halogenated			7/0	BCRL	7/0	BCRL	0/2	BCRL
Mexachlorocyclopentadiene	0/1	ECE.	Š	į				
Orranschiorine Pesticides			5	BCKL	≨	ž	≨	ž
Aldrin Dieldrin	0/1	BCRL	0/1	i a Da	ž			
20.6	0/1	BCRL BCRL	1/0	BCRL	{ {	Ž Ž	Źź	ž
Endrin	7/0	BCRL	0/1		2 2	≨:	₹	£ 2
Isodrin	1/0	ECRL BCRL	0/1 0/1	BCRL	₹ ≱ ;	₹ ≨	Ž Ž	(≥;
Arsnis	1/0	BCRL	. 1/0	1 E	≸ ;	ž	.≨	₹ ₹
Mercury	0/1	BCRL	: 2	DC.N.L.	Ź	ž	¥	ž
ICP Meuls				BCKL	≨	¥	¥	\$
Cadmium Chromium	1/0	BCRL	0/1	BCRL	7	;		
Cepper	0/1	9.5 (9.5) BCR1	73	13 (13)	₹	X X	≨;	Ź
Zinc	0/1	BCRL	1/0	BCRL RCRI	≨ ≨	. ₹	≨	Ž ž
NA = Not Analyzed	1/0	BCRL	1/1	30 (30)	₹	\$ \$	Ž	. ₹
BCRL = Below Certified Reporting Limits	Limits					•	£	£
	value for BCRL d	ata						

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 27 of 86. 大変を表する The state of the s

	Well Frequency of	Well 04048	Well	Well 04049	Well	Well 04050	Well	Well outs
	Detections	mean) µg/l	Detections	nean) µg/l	Frequency of Detections	Range (geometric mean) 114/1	Frequency of	Range (geomic.
Volatile Halogensizd Organic Compounds	złx						cerecuous	mean) µg/l
1,1 Dichloroethane	1/0	a Del	:					
1,2 Dichloroethane	7	בים בים	1/0	BCRL	1/0	ia Ja	:	ı
1,1 Dichloroethylene	170	אראר המינו	0/1	BCKL	1/0	J. P.		BCRL
1,2 Dichloroethylene		BCKL Sections	1/0	BCRL		מינים מינים	L/o	BCRL
1.1.1 Trichlomethane		0.89 (0.89)	17	1.3 (1.3)		BCKL PCKL	0/1	BCRL
1.1.2 Trichlographene	1/0	BCRL	0/1	BCP!	7.0	BCKL	0/1	17.07.
1.1.2.2 Trichlorestand	5	BCRL	0/1	ICE I	7,0	BCRL	0/1	BCRL
Carbon repressional	₹ ;	₹	≨	N N		BCRL	0/1	200
Chlomber and Millionia	1/0	BCRL	1/0	S a	≨	≨	₹	¥ 2
Chloroform	٥/١	BCRL		DCB!	T :	BCRL	0/1	R. P.
	!	0.68 (0.68)	: =	DURL 0 33 (0 mm	1/0	BCRL	5	
1-1,2 Dichloroethylene	Ź	N.		U.77 (0.77)	1/1	0.57 (0.57)	: 5	DCKL 0 54 (0 53)
l ctrachlorocthylene	0/1	BCel	<u> </u>	Ž	≨	× 2	: 3	(10.75)
Trichloroethylene	17	94 /95	5:	BCRL	1/0	MCRI	\$	ž
	•	(06) 06		160 (160)	1/1	(cy) (y	7,	BCRL
Methylene Chloride	1/0	P.C.	;		•	(70) -0	1/1	(L.D) 1.7
	•	T-V	1/0	BCRL	1/0	BCRL		
Volstile Hydrocarbons							1/0	BCKL
Dicyclopentadiene	2	77	į					
Methylisobutyl ketone	. ≨	€ ≵	≨ ;	≨	Ź	×	**	;
	:	٤	ž	ž	£	5 2	٤ ۽	≨ ;
Yolstile Aromatic Organics						•	٤	≨
Benzene	1/0	100	:					
Ethylbenzene	1/0	7 Z	1/0	BCRL	0/1	200	5	
m-Xylene	:/0	J. S. C. M.	Z :	BCRL	0/1	200	7/0	ECK!
o send p-Xylene		DCAL none	1/0	BCRL	1/0	1000	1/0	BCRL
Tolucne	7.0		0/1	BCRL	. 1/0	Z Z	T/0	BCRL
	1 6	BCKL	ī/o	BCRL	0/1	EC P.	1/0	BCRL
Organosulfur Compounds.					:	DENE	1/0	BCRL
Mutau Agun Reland								
1.4 Grathing	1	;						
Dithiane	£ \$	≨ :	Ž	*	ž	***	į	
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NA == Not Analysed
BCRL == Below Certified Reporting Limits
(mean) == Geometric Mean including value for BCRL data
µg/l == micrograms per liter

Well Frequency of Detections umda. umda. ethyl sulfide NA ethyl sulfone NA ethyl sulfone NA thyl sulfonide NA Compound NA Phosphonate NA Phosphonate NA	04048 Range (geometric mean) us/l						
1 sulfide 1 sulfone 1 sulfoxide 1 sulfoxid		Well Frequency of Detections	Well 04049 of Range (geometric	Well Frequency of	Well 04050 of Range (geometric	Well Frequency of	Well 04051
l sulfade l sulfone sulfoxide ud upounds. phosphonate rephonate P				Successions	mean) µg/l	Detections	mean) µg/J
l sulfone sulfoxide nd nd ncounds. phosphonate rephonate	**	į					
nd in incompand in incompand in incompand in incompand in inspirate in inspirate in incompand in	5 5	≨	ž		¥N	į	
nd IESUnds. phosphonate ssphonate	₹ ₹	₹ ≵	≨ ∶	≨	₹ ≵	≨:	¥
IFOURGA. phosphonate sphonate	•	<u> </u>	ž	ž	.	₹ ₹	\$ \$
posphonate	ž	414	į				•
phosphonate sphonate		<u> </u>	£	ž	ž	ž	ž
	Ž	ź	\$	ž	i		
	£	₹	ž	₹ ₹	\$ \$	≨:	ž
mivelatile Halogenated	\$	ź	42	į	•	£	Ź
Oranic Compounds			<u> </u>	≨	\$	ź	ź
Hexachlorocyclopentadiene NA	\$	\$	ź				
Orthorine Pesticides		•	<u> </u>	≨	£	£	2
Aldrin	×						
	. ₹	≨	≨ ≵	Ź.	ž	W	į
	₹	≨	£ ½	≨ ∶	≨	₹ ≵	≨ :
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Isodrin	\$ \$	Ž :	ž	₹ ₹	≨ ≨	≨ :	≨
Arrenio	•	ž	≱	≨	∑	≨ :	ž
***	ž	ž	\$;	•	٤	ž
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	<u> </u>	£	ž	¥	W	;	
KOT Metals				1	Ş	≨	Ź
Community	≨	ž	2	į			
	Z	≨	₹ 2	≨ ;	₹	ž	74
ì	≨	ž	<u> </u>	£ :	ž	Ź	€ ≨
	≨:	ž	. ₹	£ 2	≨ ;	£	₹ ≵
NA w Not Analyzed	≨	≨	Ž	₹	≨≨	≨ :	≨
				•	Ş	≨	ž
(mean) = Geometric Mean including value for BCRL data	10						

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquiter of the Western Study Area. Page 29 of 66.

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94077 Range (geometric mean) µg/l			BCRL	BCRL	24 (24)	12 (13)	(1)	10.10	DCAL L	\$	BCRL	42 (42)	BCRL	ž	BCRL	43 (43)	BCRL			Ž	\$		174	£ ;	₹ :	≨	ž	. ₹				≨ ≵	
Well 04077 Frequency of Rang Detections m		;	1/0		1/1	1/1	1/1	: 2	. A	\$ 3	7/0	<u> </u>	1/0	≨	1/0	1/1	1/0		į	≨ ≥	£		NA.	<u> </u>	٤:	ž	£	£			j	≨ ≨	
Well 04076 of Range (geometric ns mean) µg/l		6 . 6 .	(0.1)	BERL	4.7 (4.7)	BCRL	(7.0) 7.7	BCRL	2	BCRI	03 (03)	(64) 64	0.04 (0.04)	¥ :	0.93 (0.93)	10 (10)	BCRL		MA	\$ \$	<u> </u>		ž	**	£ 3	S :	\$	Ź			**	£ £	
Well Frequency of Detections	-		: 6			1/0	1 /1	0/1	Ź	1/0		: -	: 2		1/1	1/1	0/1		4 2	5 ₹	;		≨	Ź	1		≨ ;	\			47	₹ ₹	
	Yolatile Hatogenated Organic Compounds	1,1 Dichlorocthane	1,2 Dichlorocthane	1 Dirhlogoethylene	1.2 Dichlocombulen	1 1 Tailette and	1, 1, 1 Hichiotocinane	1,1,4 Irichloroethine	1.1.2.4 Irichlorov thane	Carbon terrachloride	Chlorobenzene	Chloroform	T-1,2 Dichloroethylene	Tetrachlorocitylene	Trichloroethylene		Methylene Chloriste	Volstile Hydrocurbans	Dicyclopentadiene	Methylisobutyl ketone		Volatile Aromatic Organica	Benzene	Ethylbenzene	m-Xylene	o and n. Xulena	Tolliers	* OTOS	Ortanosulfur Communds.	Musiard Areni Related	1,4 Oxathiane	Dithiane	

NA == Not Analysed
BCRL == Below Certified Reporting Li.nits
(mean) == Geometric Mean including value for BCRL data
µg/l == micrograms per liter

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stalfar Campaunds, ckte Related horophenylmethyl sulfide hlorophenylmethyl sulfone hlorophenylmethyl sulfone hlorophenylmethyl sulfoxide nitroren Compound prolactam sprolactam		Well	Well 04076	W		
adiene NA		Frequency of Detections	Ringe (geometric mean) µg/l	Frequency of Detections	Nation (geometric mean) µg/l	
adiene NA	osulfur Compounds, Side Related					
adiene NA	hlorophenylmethyl sulfide	\$	2	42	3	
Addience NA	more objective that the surface of t	₹:	Ž	<u> </u>	\$ \$	
Phosphonate NA		٤	₹	ž	. ≨	
Phosphonate NA	oniversa Compound					
adiene NA	aproluctam	ž	ž	ž	Y.	
adiene NA	Suborphoraus Compounds.			•	<u> </u>	
######################################	Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	22	Ž	ž	Ź	
# # # # # # # # # # # # # # # # # # #	•	Ę	£	ž	Z	
* *****		ž	₹	ž	2	
******	Semivolatile Halozenated					
* **** * * ***** * ***** * * * ***** * ***** * * * *****	ic Compounds					
*	exaction of the control of the contr	Ź	¥	ž	4 2	
*****	Organochlorine Pesticides				ŧ	
****	11.1	≵ ;	ź	ž	ä	
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222	omium	. ≨	£ \$	Ž 2	Ž.	
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NA NA	·	ž	*	₹	Ž	
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BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

1811 = micrograms per liter

Perpensive Per	Administration of the Western Study Area. Page 31 of 68.							
Canic Compounds		Well Frequency (Detections	04524 Range (geometric mean) µg/l	Well Frequency of Detections	04528 Range (geometric	Well Frequency of	04529 Range (geometric	
10	e Halogenated Organic Con	monnede			mean) µg/i	Detections	mean) µg/l	
## 17 17 17 17 17 17 17 17	Dichloroethane	_						l
BCRL N. N. N. N. N. N. N. N	District of	0/2	BCRL	ΥN	į			
Control Cont	Denioroctione	0/2	BCBI	<u> </u>	₹	1/0	10,70	
1	Dichloroethylene	1/0	DC.N.L.	₹	ž		DCAL	
10 10 10 10 10 10 10 10	2 Dichloroethylene	170	BUKL	₹	Y.	1/0	BCKL	
1	1 Trichlomethan	\$;	₹	ž		1	BCRL	
Columbia	Trible of the	0/2	BCRL	NA	<u> </u>	0/1	BCRL	
### PERIL N. P.	1.2 Inchiorochare	0/2	Brei	<u> </u>	≨	1/0	Page 1	
## 1/3	1.2.2 Trichlocoethane	Ź	a via	٤	Ź		PCAL.	
1/3 BCRL	rbon tetrachloride		٤.	≨	Y 2		BCK	
## PCRL 0/3	dorobensene	6/0	BCKL	₹	, <u>*</u>	≨ :	ž	
BCRL 0/3 BCRL 0/3 BCRL 0/3 BCRL NA NA NA NA NA NA NA NA NA N	locafa	6/3	BCRL	*	§ ;		BCRL	
0/3 BCRL 0/3	Шогого	0/3	BC01	<u> </u>	ž	70	I G. Da	
9.3 BCRL NA	1.2 Dictionoethylene	0/3		≨ ;	Ź	5	1000	
HCKL NA	trackloroethylene	, E, C	BCAL BOSS	≨	Ź	· A	שרער	
HCKL NY	chloracthylene		BCKL PORT	Ź	≨	S S	ž	
1/3 3.6 (1.2) RX	•	6/0	BCKL	≨	2	1/0	BCRL	
** ** ** ** ** ** ** ** ** ** ** ** **	rae Chloride	0/2	RCP1	ž	•	1/1	0.94 (0.94)	
NA N			N-NE	ž	Ź	0/1	BCB.	
** ** ** ** ** ** ** ** ** ** ** ** **	Hydrocarbona							
1/3 3.6 (1.2) NA N	yclopentadiene	\$	V.	į				
1/3 3.6 (1.2) NA	thylisobutyl ketome	₹	S 3	Ž 2	¥.	ž	NA.	
1/3 3.6 (1.2) NA			•	٤	\$	Ź	. ≱	
1/3 3.6 (1.2) NA	Aromatic Cremics						r •	
3.0 (1.2) 3.0 (1.2) 3.0 (1.2) 8.0/3	Zene	27	;					
9,2 BCRL	Vibenzene		2.0 (1.2)	ž	ž	×N	;	
MA NA	Viene	7/0	BCKL	≨	*	S	£	
BCRL FE	An Yulana	6/0	BCRL	ž		€ :	≨	
MA NA	a property of a	0/3	BCRL	ź	<u> </u>	≨	ž	
	ective .	6/0	BCRI	\$ \$	≨ ;	ź	ž	
**	,			\$	₹	ź	ę N	
AN A	after Compounds.						•	
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	Anc	₹	2	≨ ;	≨	ž	MA.	

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NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including walte for BCRL data

48/1 = micrograms per liter

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Frequency Detection Detect	Percention Per								
Chicotopanish	Descriptions Description Description		Well 0. Frequency of Detections	4524 Range (mean) mean) µg/l	Well (Frequency of Detections	24528 Range (mean)	Well Frequency of	04529 Range (mean)	
Chicophenylmethyl sulfide	Characteristication	Organosulfur Compounds,				100 H	Detections	meen) µg/l	
No.	Description	Chlorophenylmethyl sulfide Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone Chlorophenylmethyl sulfone	Ž Ž	≨ ≨	£ £	2 2	ž	\$	
Cayrolacitin	Cayrolacitin	Ottanonitogen Compound	\$	ž	£	£ £	\$ \$	₹ ₹	
Collective of the collection	Comparison of	Caprolactem	ž	£	ž	Į.			
Distopropylmethyl phosphonate	Dimetry Interby Phosphonate O/T BCRL NA	Ottanochoephorous Compounds. GB - Asom Related			į	£	≨	ž	
1	1973 BCRL 376 0.20-0.88 (0.23) 0/11	Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	.i.0 0/1	BCRL BCRL	£ 2	ž	¥	**	
PCRL	December	DECP	6/3	10.01		≨	ž	! !	
Comparing Comp	Control Cont	Semivolatile Halogenated				.20-0.88 (6.23)	0/11	BCKL	
	National Periodical	Hexachlorocyclopentadiene	2/0	PCPI	ž				
Section O/2 BCRL NA	Section O	Organochloning Pesticides			E	≨	Ź	\$	
## Not Analyzed ## BCRL ## Not Analyzed ## BCRL ## Not Analyzed ## No	## BCRL NA	Aidrin Dialdria	2/0	BCRL	2	;			
DT	DT		700	BCRL	\$ \$	\$ \$	£ :	Ž	
NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA		0/2	BCK.	≨ ∶	Ž	§ §	≨ ≵	
NA	NA	Irodrin	0/2 0/2	BCRL	£ ≨ :	₹	₹ ≵	!	
NA	NA	Arenic	0/2	M.C.	٤ ;	≨	Z	{ £	
NA	NA	Mercury	؛ ;	200	£	ž	ž	ž	
dmium dmium 0/2 BCRL NA NA NA NA NA NA NA NA NA N	denium object object	•	£	ž	ž	ž	N.	;	
Description	Main	KP Meiak					Ş	\$	
Peper 0/2 BCRL NA	pper 0/2 BCRL NA	Chromium	0/2	BCRL	ž	**			
BCRL NA	MA NA	Copper	7/0	BCRL	ž	ž	£ 2	≨ ∶	
# Not Analyzed # Below Certified Reporting Limits # Below Certified Reporting Limits	= Not Analyzed	Zim	0/2	BCRL	₹ 2	≨:	Ź	₹ ≵	
= Below Certified Reporting Limits	= Below Certified Reporting Limits = Geometric Mean including value for BCRL data = micrograms per liter	, #	1/2	(00)	£ £	₹ ₹	Ž 2	.	
	 Decomeinte Mean including value for BC micrograms per liter 	N 3	Limits				į	Ę	

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of 66.																		•													
Paye 33																															
T																															
Vestern St		Range (geometric mean) µg/l		٤	PCR PCR	3 2	BCR!	0.85 (0.21)	BCRL	₹	BCRL	BCRL	BCRL.	BCRL	1.6-2.6 (2.1)	K.	BCRL)		BCRL	₹	R.	Z:	3			22	
er of the V	Well poors			2	S 62	a e	à pà	0.85	À		æ	æ	ă	Ä	1.6-2	¥	×			<u> </u>			æ	BCRL	2	BCRL	3			BCRL BCRL	
onlined Aquifer of the Western Study Area. Paye 33 of 68.	***	Frequency of Detections		0/4	0/4	0/4	1/0	1/4	0/4	Ź	0/5	0/5	2/0	0/4	5/5	c/o	0/4			0/3 0/3		!	0/8	0/4	0/2	0/s 5/6	r lo			0/4 0/4	
1 abus WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 33 of 66.	10	Range (geometric mean) µg/l		BCRL	BCRL	BCRL	ž	BCRL	BCRL	≨ §	BCKL	BCKL PCP:	EK.K.	4.7-5.6 (5.1)	BCKL 14 (0.71)	(1,.0)	BCRL		¥N	5 5			BCRL PCR.	BCKL	DCR.	BCRL	<u> </u>		i	\$ \$	
alytical Re	Well 09001												•	₹		•															
ELEST ndwater An	i	Frequency of Detection.	nds	1/0	70	7	≨ ₹	170	1 4 R	\$ 3	7/0	7/0	4 6	7/7	1/2		1/0		Ź	\$		00	7/0		2,0	0/2			Vi.	₹.	
ry of Grou			ic Compou																												
1 Summa			Volstile Habatensted Organic Compounds	chane	cthane	cinylene	rochane	rocthane	1.1.2.2 Trichloroethune	hloride	2		methylene	hylene	lene		এ	F UO;	fiene	'l kctone	Organics				•		•	ounds.	7		
WSA 2.4			Hskieem	1,1 Utchlorocthane	1.4 Dichloroethane	1. Dichlosochylen	1.1.1 Trichlorogium	1.1.2 Trichlorocthane	,2.2 Trich	Carbon tetrachloride	Chlorobenzene	Chloroform	T-1.2 Dichlomethylene	Tetrachloroethylene	Trichloroethylene		Methylene Chleride	Volatile Hydrocartons	Dicyclopentadiene	Methylisobutyl ketone	Volstile Aromatic Organics	Benzen e	Ethylbenzene	m-Xylene	o and p-Xylene	9	:	Musterd Agent Related	1.4 Oxethiane	inte	
elde!			Yolaik		÷ 🗆			1.1	1.1	Ĵ	ජි	_ี	Ë	Tet	įį	1	Methyle	Voletile	Dic	Me	Volatile	Ben	Ethy	X-m	9	Tolucine	į	Musterd	1.4 (Dithiune	

NA = Not Analysed

BCRL = Below Certified Reporting Limits

(mcan) = Geometric Mean including value for BCRL data

18/1 = micrograms per liter

1 of 66.																															
Page 34 of 66.																															
Udy Area.																															
Ults for the Unconfined Aquifer of the Western Study Area. Page 34 of	29002 Range (geometric mean) 110/1	2		BCRL	BCRL	Town Town	\$		BCRL	BCRL	BCRL		i d	BUKL		BCRL			BCRL	CALL CALL	(7.5)	BCRL		2	13 (6.7)	BCRL	BCRL	BCRL			
onlined Aquiter of the	Well 09002 Frequency of Range Detections m			0/4	0 0 7 7	•	ž		0/4	9/0	0/2		70		:	4/0	6/3	0/3	0/4	. 2		1/0		0/2	1/2	0/2	2,0	0/2			
NEST CONTROL OF THE UNC	09001 Range (geometric mean) µg/l			\$ 2	\$ \$		¥		£ 2	£ 8	BCKL		BCRL			ECR.	BCRL	BCRL	BCRL BCRL	ž	*	Ę		₹	≨ ∶	≨ ;	£ 2	<u>\$</u>		7	
Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area.	Well 199 Frequency of R Detections		;	≨ ₹	.		ž		\$ \$		7/0		1/0		1/0	0/1	0/1	1/0	0/1	2	ž			≨:	≨ :	£ 3	\$ \$		imite	Geometric Mean including value for BCRL data	
mary of Ground		4	. 96	i sulfone	l sulfoxide	Pul		nponuda.	phosphonate osphonate			~~	tadiene																Below Cerified Reporting Limits	een including w	er liler
WSA 2.4-1 Sum		Orranosulfur Compounds.	Hatheride Related Chlomeshandmarked	Chlorophenylmethyl sulfone	Chlorophenylmethyl sulfoxide	Orthonipoten Compound	Caprolactain	Organophorphyrous Compounds.	Diisopropylmethyl phosphonate Dimethylmethyl phosphonate			Semivolatile Halogenated Organic Companied	Hexachlorocyclopentadiene	Ortanochlorine Pesticides	Tin	Dieldrin	u L	. iu	irin			<u>د</u>	Color	Organisa)er	į		= Not Analyzed	= Below Certifu	. Geometric Me	
Table		Ortano	설명 -	55	ರೆ	Ortho	₹ -	Orthon GB - A	Dii.	टक्ष्य		Semiyol Orranic	Hex	Oreanoc	Aldrin	Diel Piel		Endrin	Isociin	Arsenic	Mercun	(1) A	STATE OF THE STATE		Copper	Leaf of	Zinc			(mean)	

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Table WSA 2.4-1 Summary of Groundwater Analytical Rosults	oundwater Analytic		confined Aquite	or the Uncontined Aquifer of the Western Study Area.	udy Area. Page 3	V× V V V V V V V V V V V V V V V V V V			18. 18.
	Well Frequency of Detections	Well 09008 of Range (geometric 18 mean) µg/l	Wei Frequency of Detections	Well 09009 of Range (geometric 18 mean) µg/1	Well Frequency of Detections	Well 09010 of Ringe (geometric	Well Frequency of	Well 09011 of Range (geomic.	1
Volstile Habsensked Organic Compounds	ounds					mean) µg/i	Detections	mean) µg/l	
1,1 Dichloroethane	0/3	ECP.	5						
1,2 Dichloroethane	6/0	DC01	0/2	BCRL	0/2	120	1		
1.1 Dichloroethylene	3/3	DCRL	0/2	BCRL	0/2	BCP!	5/0	BCRL	
1.2 Dichloroethylene	2/0	(7.6) (2.0. 4	1/2	1.7 (0.85)	0.70	DCat	? }	BCRL	
1.1.1 Trichloroethane	7/2	BCKL 1861 St	0/2	BCRL		DCKL PCB:	3/3	12-24 (18)	
1,1,2 Trichkyroethane		7.0-9.4 (8.1)	2/2	4.9-5.3 (5.1)		BCKL PG:	2	2.6 (1.3)	
1.1.2.2 Trichlariseither	7/0	BCKL	0/2	BCE!	7/0	BCKL	3/3	27-73 (51)	
Carlyan person lowers	≨ §	Ž	Ź	2	7/0	BCRL	0/3		
Chlombar and Chlom	0/3	BCRL	0/1	1958	≨ ;	≨	₹	N N	
Chloudenzens	0/3	BCRL	./2	DCR.	0/2	BCRL	1/0	S a	
- Fire of our H	0/3	BCRL	7/0	KK.	71	0.66 (0.33)	5	BCKL POR	
1-1.2 Dichlorochylene	0/1	BCRL	7/0	BCKL	0/2	BCRL		ECKL.	
l etrachlorochylene	6/0	£ 5	<u> </u>	≯	0/1	BCRL	3 5	BCKL.	
likhiorochylene	2/2	17-21 (19)	272	BCKL	2/0	BCRL	: 5	(0.1) o.1	
Marketon China			•	(11)	0/2	BCRL	3/3	16.36 (26)	
CASALLA LINOTROS	6/0	BCRL	1/0	ia di	•		1	(07) 00-01	
Volume of the			•	DCAL	0/2	BCRL	6/3	100	
TATELLIS LIVOROS BITOMS							!	TUNE TO THE TOTAL THE TOTAL TO THE TOTAL TOT	
Dicyclopentadiene	0/1	Ja.Ja	3						
Methylisobutyl ketone	0/1	BCRL	\$ \$	ž ž	0/1	BCRL	1/0	5	
Volatile Ammalic Organica			•	٤	0/1	BCRL	0/1		
D.								1	
Dentene	C/0	BCRL	0/2	I G C B	1				
ray occurrence	6/3	BCRL	0/2	DCP.	5/0	BCRL	6/3	ia Za	
m-Ayene	6/0	BCRL	, 2	BCKL BOST:	0/3	BCRL	2	T T T	
o and p-Xylene	0/3	200	4 5	BCKL	5/0	BCRL	55	DCK.	
Toluene	1/3	5007	7/0		6/0	BCRL	2	ECK!	
;		()	7/0	BCRL	6/3	BCRL	35	BCKL PCKL	
Weenstuffer Compounds.								BCKL	
ALLES ALCH KEILLED									
Disking	1/0	BCRL	ž	W	Ş	ı			
2	1/0	BCRL	<u>\$</u>	≨	6		1/0	BCRL	
						DCKL	1/0	BCRL	

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

Projectory of Range (Geometric Frequency) of Geometric Frequency of Geometric	Production Pro	Table WSA 2.4-1 Summary of Groun	ndwater Analytical	<u> </u>	confined Aquifer	r of the Western Stu	dy Area. Page 3	Nesuits for the Unconfined Aquilier of the Western Study Area. Page 36 of 68.		
Description	Description		=	99008 Range (geometric mean) µg/l	Well Frequency of Detections	09009 Range (geometric mean) 110/1	Frequency	09010 Range (geometric	Wel	1 09011
Characteristical Char	Characteristics of the RCRL NA NA Off BCRL 0ff Characteristics of the RCRL NA NA Off BCRL 0ff Characteristics of the RCRL NA Off BCRL 0ff Characteristics of the RCRL NA NA NA NA Off BCRL 0ff Characteristics of the RCRL NA NA NA Off BCRL 0ff BC	Occapabilly Compounds				- PA (Detections	mean) µg/l	Detections	mean) µg/l
Charophenylinethyl infosie	Chalcophenylinethyl inflorate 011 BCRL NA	Chlorophenylmethyl sulfide Chlorophenylmethyl sulfide	0/1	BCRL	ž	\$	Š			
Captolication	Captolication	Chlorophenylmethyl sulfoxide	0/1	BCRL BCRL	≨ ≵	Ž 2	1/0	BCR(BCR(0/1 0/1	BORL
Comparison of	National Compounds	Otsnenitosen Compound Caprolaciam	ź	Ž	ž		1/0	BCRL	0/1	BCRL
Disciplinatively phosphonate 0/1 BCRL NA NA NA 0/1 BCRL 0/1	Disciplinately phosphonate 0/1 BCRL NA NA 0/1 BCRL 0/1	Orranophotohorous Commonada.		Ē	ž	ž	Ź	ž	ž	ž
Scholars 14 15 15 15 15 15 15 15	Scholite Hologeniacida	Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	0/1	BCRL	£ 3	Ž	0/1	BCRL	Š	
SCRL 10/3 SCRL 0/3 SCRL 0/3 SCRL 0/3	SCALE Model Mode	DEC	0/3	BCE 1	§ §	≨	0/1	BCRL	0/1	BCR.
Schloring Pesticides	Schloting Pesticides	Semivolatile Halogenated Ortable Compounds			1/0	BCRL	0/3	BCRL	6/0	BCRL
Decembration Particulary Decembration Particulary Decembration Decembration Particulary Decembration	Decidering Pesticides Decidering Decid	Hexachlorocyclopentadiene	0/1	BCRL	Ž	3	;			
Deck	December O 1	Organochlorine Pesticides			5	ž	0/1	BCRL	1/0	BCRL
CE 0/1 BCRL NA NA 0/1 BCRL 0/1 odrin 0/1 BCRL NA NA 0/1 BCRL 0/1 odrin 0/1 BCRL NA NA 0/1 BCRL 0/1 ε 0/1 BCRL NA NA 0/1 BCRL 0/1 x 0/1 BCRL NA 0/1 BCRL 0/1 x 0/1 BCRL NA 0/1 BCRL 0/1 x <td< td=""><td> Control Color Co</td><td>Aldrin Diektrin</td><td>1/0</td><td>BCRL</td><td>ž</td><td>ž</td><td>Š</td><td></td><td></td><td></td></td<>	Control Color Co	Aldrin Diektrin	1/0	BCRL	ž	ž	Š			
Advision 0/1 BCRL NA NA 0/1 BCRL 0/1 BC	O	DOE	0/1	BCRL	Ž	≨:	0/1	BCRL RCRL	0/1	BCRL
Secondary	second ordin 0/1 BCRL NA NA 0/1 BCRL 0/1 stable 0/1 BCRL NA NA 0/1 BCRL 0/1 x 0/1 BCRL NA NA 0/1 BCRL 1/1 x 0/1 BCRL NA NA 0/1 BCRL 1/1 x 0/1 BCRL NA NA 0/1 BCRL 0/1 x 0/1 BCRL NA NA 0/1 BCRL 0/1 x 0/1 BCRL NA 0/1 BCRL 0/1 x Geometrized Reporting Limits X NA 0/1 BCRL 0/1	Extri	0/1	BCRL	≨	\$ \$	1/0	BCRL	0/1	BCRL FCB
### O/1 BCRL NA NA O/1 BCRL O/1 ###################################	State O/1 BCRL NA NA O/1 BCRL O/1	Hodrin	0/1 0/1	BCRL BCRL	Ž Ž	!	0/1	BCRL BCRL	1/0	BCRL
24 0/1 BCRL NA NA 0/1 BCRL 0/1 schaining 0/1 BCRL NA NA 0/1 BCRL 0/1 ironium 0/1 BCRL NA NA 0/1 BCRL 1/1 includium 0/1 BCRL NA NA 0/1 BCRL 0/1 includium 0/1 BCRL 0/1 BCRL 0/1 includium 0/1 BCRL 0/1 BCRL 0/1 includium 0/1 BCRL 0/1 0/1	### O/1 BCRL NA NA O/1 BCRL O/1 ###################################	Anenie	0/1	BCRL	. ≴	£ 3	0/1	BCRL	0/1	BCRL
Section Sect	Management Man	Msrcurx	1/0	i a Ca	: :	٤.	1/0	BCRL	0/1	BCRL
schwium 0/1 BCRL NA NA 0/1 BCRL 0/1 rromium 0/1 BCRL NA 0/1 BCRL 1/1 romium 0/1 BCRL NA 0/1 BCRL 1/1 romium 0/1 BCRL NA 0/1 BCRL 1/1 romium 0/1 BCRL NA 0/1 BCRL 0/1 romium 0/1 BCRL 0/1 BCRL 0/1 romium 0/1 BCRL 0/1 BCRL 0/1	whitis whitis borning 0/1 BCRL NA NA 0/1 BCRL 0/1 bcRL NA NA 0/1 BCRL 1/1 bcRL NA NA 0/1 BCRL 1/1 bcRL NA NA 0/1 BCRL 1/1 bcRL NA NA 0/1 BCRL 0/1 BCRL NA NA 0/1 BCRL 0/1 BCR	ICP Mens		74.22	٤	≨	0/1	BCRL	0/1	BCRL
December O/1 BCRL NA NA NA O/1 BCRL O/1	December	Cachriem	0/1	BCRL	*	2	į			
Description		Copper	1/0	BCRL	≨	≨ ≨	6	BCRL	0/1	BCRL
= Not Analyzed BCRL NA NA 0/1 BCRL 9/1 = BCRL 9/1 = BCRL 0/1 = BCRL 0/1 = BCRL 0/1	= Not Analyzed = Not Analyzed = Below Certified Reporting Limits = Geometric Mean including value for BCRL data = microscam core lies	Lead	0/1	BCRL	Ž Ž	Ž 2	0/1	BCRL BCRL	<u>- 7</u>	6.1 (6.1)
= Below Certified Reporting Limits	= root south year = Below Certified Reporting Limits = Geometric Heart including value for BCRL data = microstant nor list	ł	0/1	BCRL	≨	₹.	0/1	BCRL	1/6	BCRL
	H H	Ħ	Limite					2002	1/0	BCRL

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Service of the servic) for reading	5 h
21	S. S	12.4-1 Su	
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	Well Frequency of Detections	Well 09012 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 09013 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 09014 of Range (geometric is mem) in A	Well Frequency of	Well 28022 of Range (geomic.
Yolsule Halorensted Organic Compounds	ounds					1/3 H (115)	Detections	mean) µg/l
1,1 Dichlorocthane	20	300	:					
1.2 Dichloroethers	7/0	BCKL	1/2	3.4 (1.7)	213	***************************************	;	
	0/2	BCRL	1/2	19 (005)	1 (1	1.4-1.3 (1.4)	1/0	BCRL
1.1 Dichloroethylene	2/2	8.5-11 (9.5)		(66.0)	7/0	BCRL	1/0	1000
1,2 Dichloroethylene	10	13 (0 66)	7/7	29.42 (35)	2/2	27-36 (31)		DCN.
1,1,1 Trichlorocthane	200	(0.0)	<u> </u>	5.0 (5.0)	2/2	2707		BCKL
1.1.2 Trichlymethere	1 :	(30) 16.67	2/2	85-130 (110)	20	() () () ()	5	₹.
122 Tricklesserbane	7/1	0.90 (0.45)	1//2	4.0 (2.0)	25	(96) 001-12	1/0	BCRL
	€.	ž	Ź	WAN	7/0	BCRL	I/o	BCRL
Caroon tenachioride	0/1	BCRL	00	2000	≨ ;	£	Ź	2
Chiorobenzene	0/2	BCR!	: 2	DCRL 1. (0.10)	I/o	BCRL	0/1	i a_a
Chloroform	0/2	BCP1	1.5	1.1 (0.55)	0/2	BCRL	50	1000
T-1,2 Dichloroethylene	2		7/1	1.9 (0.95)	2/12	0.55-0.72 (0.63)		DCAL.
Tetrachlorocthylene	<i>()</i>	>	5	2.6 (2.6)	≨	NA NA	7.7	(3) (1)
Triculoroethylene	2/2	DURIC 10 11 110	1/2	2.0 (1.0)	1/2	V1707 C8 0	7,0	BCKL
	7/7	10-14 (17)	2/2	42-54 (47)	2/2	38-51 (44)	1/0	BCRL FOR
Methylene Chloride	20	ia Sa	!		•	(1)	1/0	BCKL
	10	BCK.	0/2	BCRL	0/2	BCRL	5	100
Volatile Hydrocarbama							1/0	BCKL
Dicyclopentadiene	Ž	\$						
Methylisobutyl ketone	2	٤ ۽	1/0	BCRL	Ź	N.	č	
	Š	£	0/1	BCRL	Ź	₹	55	BCRL 2001
Volatile Aromatic Organica						•	1/0	BCKL
Benzene	22		:					
Envilonment	3 5	BUKU	0/2	BCRL	00		;	i
III-Xvkoc	7/0	BCRL	0/2	BCRL	0/2	DCR.		BCRL
A see A Viller	7/0	BCKL	0/2	BCR1		DCAL.	- T	BCRL
o and p-Aykene	2/0	BCRL	20		7/0	BCKL	0/1	BCR1.
Toluene	0/2	BCRL	0/2	DC RE	2/0	BCRL	0/1	BCR!
•			•	DCAL	7/0	BCRL	0/1	PCP
Ottanorulfur Commounds.							•	TOWN TO THE PARTY OF THE PARTY
Mustard Agent Related								
1.4 Oxathisne	XX.	▼ N	ŝ					
Dithane	ž	. ₹	7.0	BCKL	≨ ∶	¥	0/1	I a Da
			7/0	BCKL	≨	¥	0/1	

NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data $\mu g/l$ = micrograms per liter

	1	. 1																							
	28022 Received	mean) µg/l		BCRL	BCRL	!	≨	1		1.7 (1.7)		į	DURL	į			BCRL	BCRL PCRL	DC#:	BCRL	BCRL		BCRL	BCR.	
	Well 28022 Frequency of Rese	Detections		1/0	0/1	δ.	٤	Š	0/1	1/1		0/0	•	č	0/1	0/4	7/0	66	1/0		1/0	į	1/0	1/6	50
Nestern Study Area. Page 38 of 86.	P9014 Range (geometric	mcan) µg/l		Ž Ž	₹ ≵	\$		ž	₹	\$		\$		ž	¥:	≨ ;	Ž Ž	≨	¥	\$	•	42	₹.	\$	ž
ENE CONTROL INVITATION OF BE	Well 09014 Frequency of Range	Percentions	ž	₹	≱	\$		¥	≨	≨		ž		≵ :	≨ ≥	E 2	<u> </u>	ž	ž	ž		ź	≨ :	₹	≨
g g	19013 Range (geometric mean) 1187		I ACE	BCRL	BCRL	¥		BCRL	BCRL	BCRL		BCRL	,	BCRL	PCR.	BCRL	BCRL	BCRL	BCRL	BCRL		BCRL	8.8 (8.8) Pare 1	BCRL	BCKL
conlined Aquiter of	Well 09013 Frequency of Range Detections m		0/1	0/1	0/1	£		1/0	1/0	160		1/0	:	5 8	1/0	1/0	1/0	1/0	1/0	0/1		0/1	1/1	1/0	
Results for the Un	Ringe (geometric mean) µg/l		ž	Ž Ž	<u> </u>	ž		\$ \$	BCRL			ž	4 7	₹ ≵	Ž	≨:	\$ \$	1 2	<u> </u>	≨		Źź	ž Ž	\$ \$	
indwater Analytical	Well 09012 Frequency of Range Detections ma		ž	≨ ≨		Ź	ž	£.≨	1/0		ž	•	ž	≨ :	Ž \$	\$ 4	₹ ≵	ž	. 2	5	7	≨	₹:	£ £	
I sole WSA 2.4-1 Summary of Groundwater Analytical Results (Organosulfur Compounds. Herbiside Relaicel	Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone	Chlorophenylmethyl sulfoxide	Ortensmin of an Compounds	Orrangabasahorour Compounds	OB - Arsut Belvied Distopropylinethyl phaembonge	Dimethylmethyl phosphonate		Semivolatile Halogenated Occupie Compounds	Hexachlorocyclopentadiene	Organochkwine Pesticides	Aldrin France	Diekam	cor	Endrin	Isodnia		_		Cadmium	Chromium	Copper	¥	
<u>8</u>	1	a d	- 0	•	Orse	, 13.10 13.10	9	=	DHC C	Semir	=	Orta	₹ 2	ು ದ	<u> </u>	Ţ.	<u> </u>	Arrenie	Mercury	ICP Metak	3	ਹੈ। ਹ		Zinc	

NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data
148/1 = microgrums per liter

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconlined Aquifer of the Western Study Area. Page 39 of 66. 1

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	7	W.11 2002	;					
	Frequency of Detections	Range (geometric mean) µg/l	Well Frequency of Detections	Well 33001 of Range (geometric 18 mean) 112/1	Well Frequency of Detections	Well 33002 of Range (geometric	Well Prequency of	Well 33008 of Range (geomic.
Volatile Halogenated Organic Compounds	a p					mean) µg/i	Detections	mesm) μg/l
1.1 Dichloroethane	!	i de Cal	;					
1.2 Dichloroethane	0/4	DCRL	0/1	BCRL	0/4	RCRI	M	;
1,i Dichlorocthylene	<u></u>	DCAL	1/0	BCRL	0/4	a a a	٤ ۽	≨ :
1.2 Dichloroethylene	(A	BCKL XX	7/0	BCKL	5	ביבור בי	٤:	≨
1.1.1 Trichlorocthane	\$?	₹ .	₹	ž	35	DCAL S C C	≨;	≱
1.1.2 Trichlomethas	*/c		1/0	BCRL	1/4	1.0 (1.0)	≨ :	Ź
1.1.2.2 Trichloroscibane	4/1	1.0 (0.25)	0/1	BCRL	7,0	0.70 (0.19)	≨ ;	₹
Carbon terrachlorists	£ 3	≨ }	ž	¥	₹ ₹		≨:	₹
Chlombenzene	7/0	KCKL 2021	1/0	BCRL	Y	¥ 2	≨ ;	Ź
Chlorofogu	7 6	BCKL	1/0	BCRL	2/2	3 (4 g)	≨ :	ž
T-12 Dichlomethylene	4/0	BCRL	0/1	BCRL	() ()	32 (0.2)	≨	Ź
Tetrachbrowship and	0/ 4	BCRL	0/1	BCR'	7/2	BCKL 10 00 00	₹	≨
Trichloroethylene	7 /0	BCRL	1/0	BCRL	- C	3/6 (0.89)	≨	Ź
	4/0	BCRL	1/0	BCRL	5/5	1.1-1.3 (0.48)	≨;	Ź
Methylene Chloride	7/0	, m				(1.0) (£	≨
	• 60	BCKL	0/1	BCRL	0/4	BCRI	NA.	;
Volatile Hydrocarbona							٤	≨
Dicyclopentadiene	0/2	ia.Ja		į				
Methylisobutyl ketone	0/2	BCRL	1/6		0/2	BCRL	ž	ž
Volatile Aromatic Occanica				!	100	BCRL	£	¥
Bentese	7/1	16 (013)						
Ethylbenzene	7/0	(1.5) (0.5)	[/0]	BCRL	2/5	15.82 (21)	**	į
ın-Xylene	7/0	DCK!	1/0	BCRL	0/4	HCR!	£	≨ ;
o and p-Xylene	0/4	BCB1	1/0	BCRL	0/2	ECR.	٤2	≨ ;
Tolucine	4/0	SCR.	7,0	BCRL	0/5	BCRL	₹ ≵	≨ ≩
		TOP	1/0	BCRL	1/5	1.8 (0.36)	. ≱	٤ ۽
Octanosulfur Compounds.							<u> </u>	£
Mustard Agena Related								
1.4 Oxathiane	2/0	BCRL	0/1	120	Ş			
	2/0	BCRL	0/1	BCRL	2/0	BCK!	≨:	¥
					• 15	DUKE	£	£

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(main) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

	Well 33008	mem) µg/l			ž	Ž 2	Ş	ž	:	₹ ₹		46 (5.8)		ž	•	*	≨	≨.	≨ ≵	₹ ≵	Ź	ž	•	ž	£ £		٤
	Well Frequency of	Detections			≨;	≨ ≵		\$	ž	₹		8/1		ź		ž	₹ .	≨;	≨	≨	\$	\$		≱ ;	≨ ≨	Ν	•
0 of 66.	Well 33002	mean) µg/l		į	BCRL	BCRL		\$	BCRL	BCRL	BCR.			BCRL		0.13 (0.03)	0.11 (.03)	PCR.	BCRL	BCRL	BCRL	BCRL		BCRL	BCRL	58-70 (42)	
Y Area. Page 40 of 66.	Well Frequency of	Detections		Ş	0/2	0/2		≨	0/2	0/2	0/5		!	6/3		4/1	* 5	0/3	0/4	0/4	6/0	1/0	!	200	6/0	2/3	
of the Western Stud	Well 33001 Vol Range (geometric ns mean) 116/1			BCRI	BCRL	BCRL		ž	BCRL	BCRL	BCRL		i G	DCKL			BCRL	BCRL	BCRL PCB:	BCKL	BCRL	BCRL		BCRL	BCRL BCRL	BCRL	
Sonlined Aquiter	Well Frequency of Detections			1/0	0/1	1/0	ż	§	0/1	1/0	0/1		ě		.,,	1/0	0/1	1/0	70	· · ·	1/0	1/0	.,	0/1	0/1 0/3	1/0	
Results for the Ura	Well 28027 of Range (geometric 13 mean) µg/l			BCRL	BCRL BCRL	DCRL	**	į	BCRL	1809	BCKL		BCRL		BCRL	BCRL	BCRL	SCR.	BCRL	iaca		DENE	BCRL	6.2 (2.1)	BCRL BCRL	51 (17)	
dwaler Analytica	Well : Frequency of Detections			0/3	7/0	•	ž		0/3 0/3	0/4	,		0/4		0/4	7 /0	4/0	0/4	0/4	0/3	1/0	•	6/0	1/3	5/0	1/3	
labe WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconlined Aquiter of the Western Study Area.		Octanosulbu Compounds,	Lierbickie Related	Chlorophenylmethyl sulfide Chlorophenylmethyl sulfide	Clustophenylmethyl sulfoxide	Organity of Compounds	Caprolactum	Orrespondental Compounds.	Dissopropylmethyl phosphonate Dimethylmethyl phosphonate	<u> जिल्</u> य	Cemivolatile II-1-	Organic Compounds	Hexachlosocyclopentadiene	Organochloring Pessiciales	Akirin	COE	DUT	Endrin	Irodrin	Arsenic	Мексих	ICP Metals	Cachnium	Copper	Lead		

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NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 41 of 86. 養 *** 1 4

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	Well Frequency of Detections	Well 33015 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33016 Well 33016 of Range (geometric is mean) 11st	Well Frequency of	Well 33018 of Range (geometric	Well Frequency of	Well 33019 of Range (geomic.
Yolatile Halogenated Organic Compounds	ds				Cereciions	mean) µg/l	Detections	mean) µg/l
1,1 Dichloroethane	0/1	BCpi	š	į				
1.2 Dichloroethane	0/1	RCP.	4/0	BCRL	2/0	BCRL	NA.	3
1.1 Dichloroethylene	50	1000	* /0	BCRL	0/2	RCBL	5 5	≨ ;
1,2 Dichloroethylene		DCPI	5/0	BCRL	0/2		٤ ۽	≨
1.1.1 Trichlorecthane		DCRL DCRI	1/0	BCRL	0/2	P. C.	٤ ۽	≨ ;
1,1,2 Trichloroethane	7.5	BCKL PCB1	0/4	BCRL	0/2	ECO.	≨	≨ ;
1.1.2.2 Trichloroethans	7/0	SC KL	0/4	BCRL	20	שביים משלו	≨ ;	₹
Carbon terrachloride	≨ ≳	≨ }	Ź	ž	₹	BCKE	≨ ∶	Ź
Chlorobenzene	7,0	BCKL	0/4	BCRL	; ; ;	5 2	≨ ;	≨
Chloroform	7/0	BCRL	9/2	BCRL		BCRL PCRL	1/0	BCRL
T-1.2 Dichlomethylene	7/0	BCRL 1001	0/5	BCRL	55	PCE.	1/0	BCRL
Tetrachloroethylene	7,0	BCKL	0/4	BCRL	6.0	DCRL DCP1	L/0	BCKL
Trichleroethylene	7/0	BCKL PCT	0/5	BCRL	2/3	1 4-1 0 /1 1)		BCRL
	7/0	BCKL	0/8	BCRL	1/3	2.7 (0.9)	7.5	(1.9)
Methylene Chloride	1/1	13 (13)	0/4	iaSa	•		1	BUKL
W-1-22				DCRL	0/2	BCRL	ź	Ź
You will Hydrogarbona								•
Dicyclopentadiene	ź	¥	è					
Methylisoburyl ketone	≨	\$	0/1	BCRL	1/0 V	BCRL	1/0	BCRL
Yolsule Aromatic Ortanica				!	Ę	£	£	ž
Benzene	00	10/0	;					
Ethylbenzena	7.0	BCKI.	2/2	2.0-2.9 (0.96)	1/3	70,000		
m-Xylere	700	EKK.	0/4	BCRL	0/2	BCP!	7/0	BCRL
o and p-Xylene	• ?	DCAL PCN	c/0	BCRL	6/0	ECP.	1/0	ECK!
Tolucine	7/0	K.K.	0/2	BCRL	6/0	E S	7	
	7/0	BCKL	0/2	BCRL	6/3		1/0	BCKL
Orrangeulfur Compounds.					ļ	True True	1/0	BCRL
Musterd Agena Related								
1,4 Oxathiane	ž	*	~					
Dithiane	Ź	≨	1.70	BCRL	6/1 6/1	BCRL	0/1	BCRL
					1/0	BCRL	0/1	BCRL

NA = Not Analysed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

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Action control of the	BCRL BCRL BCRL BCRL BCRL	0/1 0/1 0/1 0/10 0/10	BCRL BCRL BCRL BCRL BCRL BCRL BCRL	Detections 0/1 0/1 0/1 NA	BCRL BCRL BCRL BCRL
sulfade NA NA NA NA NA Sphonate NA	BCRL BCRL BCRL BCRL BCRL	0/1 0/1 0/1 0/10	BCRL BCRL BCRL NA NA BCRL BCRL	555 ≴	BCRL BCRL BCRL
sulfoxide NA NA NA NA NA Sphonate NA	BCRL BCRL BCRL BCRL BCRL	0/1 0/1 0/1 0/1 0/10	BCRL BCRL BCRL NA NA BCRL BCRL	555 ≴	BCRL BCRL BCRL
aulioxide NA NA NA NA Sphonate NA	BCRL BCRL BCRL BCRL	0/10 K 0/1/0	BCRL BCRL BCRL BCRL BCRL	555 ≴	BCRL BCRL
Egunds. Egunds. Abosphonate NA NA NA Sphonate NA	BCRL BCRL	0/10 0/10 0/10	BCRL BCRL BCRL	55 ≴	E E
EQUINGS DOUNDS Sphonate NA Adiene NA	NA BCRL BCRL BCRL	NA 0/1 0/10 0/10	NA BORL BORL BORL	\$	
Equinds sphonate NA	BCRL BCRL BCRL	0/10 0/10	N BCRL BCRL	£	
sphonate NA NA NA Sphonate NA	BCRL BCRL BCRL	0/1 0/1 0/10	BCRL BCRL	٤	
sphonate NA	BCRL BCRL BCRL	0/1 0/1 0/10	BCRL BCRL		≨
sphonate NA	BCRL BCRL BCRL	0/1 0/10 0/10	BCRL		
beine My Berl.	BCRL	0/10	BCRL	0/1	i de
A A A A A A A A A A A A A A A A A A A	BCRL	0/10		0/1	PCR.
A A A A A A A A A A A A A A A A A A A	ia de		BCRL	20	
A XXXXX	Rrgi			1	BCRL
	12L J2H				
2222 2	acus.	Ź	¥	ž	ž
* * * * * * * * * * * * * * * * * * *				•	Ę
2222 2222	BCRL		į		
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	BCRL	1/0	ECK!	1/0	BCRL
**	BCRL	Ź	1 ₹	1/0	BCRL
42	BCRL	₹	ź	£ \$	≨:
₹	ECK!	0/1	BCRL	5 5	₹ ૄ
Aristic		1/0	BCRL	0/1	BCRL
	BCRL	≨	ž	77	;
MSTUTELY NA NA 0/1	ě	ż		£	\$
	DCAL	£	£	ź	*
3 :	6.0 (2.0)	ž	3		
	9.1 (3.0)	≨	٤ ≵	≨;	Ź
	BCRL	ž	2	£ \$	≨
	22 (7.4)	Ź		\$ \$	≨:
š	(V 8) \$C	≨	. ₹	₹ ≵	₹

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquiter of the Western Study Area. Page 43 of 68.

	Well Frequency of Detections	Well 33020 1 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33021 of Range (geometric 13 mean) µg/l	Well Frequency of Detections	Well 33022	Well Prequency of	Well 33023
Volstile Habbensted Organic Comments						mean) µg/i	Detections	mean) µg/l
1.1 Dichlomethane								
1.2 Dichlorocthane	7/0	BCRL	≨	ž	9/0	140	:	
1 Division that	7/0	BCRL	₹	*2	2/0	BCKL	20	BCRL
	0/2	BCRL	Ž	Ž	0/0	BCRL	2/0	120
1.4 Dichlorochylene	0/2	BCRL	Į.	<u> </u>	0/2	BCRL	1/0	1920
I.I.1 Trichlorocthane	0/2	BCe!	£ <u>\$</u>	≨ ;	0/4	BCRL	. A	DCAL No.
1.1.2 Trichloroethane	0/2	DC or	≨	≨.	3/6	3.0-7.1 (2.5)	2	\
1.1.2.2 Trichloroethane	Ž	N. P.	≨ ;	ž	9/0	BCR1	7 5	3.7 (1.9)
Carbon tetrachloride	10	\$ {	≨ ;	≨	≨	NA NA	7/0	BCR
Chlorobenzene		BCKL PCP:	0/1	BCRL	\$/0	ia Ja	٤ ځ	≨ .
Chloroform	50	BCKL "Git	0/1	BCRL	20	DCn1	6/0	BCRL
T.1 2 Dichlymerhalene	C/0	BCKL	1/0	BCRL		BCKL PCRL	6/3	BCRL
Tetracklore selection	1/0	BCRL	0/1	BC81		BCRL	0/3	BCRL
Twickless while	3/3	0.86-1.5 (1.2)	1/1	140.4	2 5	BCKL	0/3	BCRL
i kuideoemyiene	0/3	BCRL	0/1	RCP!	2 5	BCRL	6/0	BCRL
Markethan Orthogra-	!			DC.N.E.	//0	1.0-6.8 (3.1)	3/3	5.2-7.4 (6.3)
FIRST A DIGITAL	0/7	BCPL			3/1	***	:	
Yolstile Hydrocarbons					2/1	10.0 (1.7)	2/0	BCRL
Dicyclopentadiene	0/1	BCRL	1/0	1000	:			
Methylisobutyl ketone	ž	Ž	₹	Z S	5≱	BCR L	0/1	BCRL
Volatile Aromatic Organica					:	£	£	ž
Benzene	6/3	RCR!	è					
Ethylbenzene	0/2	B C8	7/0	BCKL 2001	1/1	1.0-3.5 (0.53)	2/3	1021/11
m-Xylene	0/3	13. E		ECKI.	9/0	BCRL	2	(*1) (.7-t.)
o and p-Xylene	0/3	BCS.	1,6	BCKL	<i>U</i> 0	BCRL	50	PCP!
Tolucne	6/0	BCRL	0/1	BCRL BCRL	, , ,	BCRL	6/0	BCRL
			•	DCNE	//0	BCRL	6/0	BCSL
Musterd Agent Related								
1 A On the state of the state o	;							
Dithiane		BCRL	1/0	BCRL	0/1	122		į
	:	BCKL	0/1	BCRL	0/1	BCRL	7.5	BCKL BCBL
								DCNL

NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data
µg/l = micrograms per liter

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	3							
	Well Frequency of Detections	Well 33020 of Range (mean) 18 mean) µg/l	Well Frequency of Detections	Well 33021 of Range (mean)	Well Frequency of	Well 33022 of Rango (mean)	Well Frequency of	Well 33023
Organosulfur Compounds, Herbicite Beleich				181	Detections	mean) µg/l	Detections	mean) µg/l
Chorophenylmethyl sulfide Chlorophenylmethyl sulfide	0/1	BCRL	0/1	BCRL	1,0	Š		
Chlorophenylmethyl sulfoxide	0/1	BCRL	0/1 0/1	BCRL	1/0	BCRL	1,0 0,0	BCRL
Originality Compound			į	BCRL	1/0	BCRL	0/1	BCRL
Caprolaciam	¥	ž	ž	ž	4 2	;		
Oxerophosphorous Compounds.				į	£	≨	ž	ž
Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	1/0	BCRL	1/0	BCRL	0/2	Ē	;	
£ 20	• (6	BCKL	0/1	BCRL	0/2	BCRL	0 0 0	BCRL PCRL
	0/3	BCRL	0/1	BCRL	y /0		;	DCKL
Semivolatile Halogenaice					2	BCKL	5	BCRL
Mexachiorocyclorentactions	į							
auditario ()	ž	≨	ž	Ž	5	į		
Organoshlatine Perticides					• 6	BCKL	2/0	₹
Notice District	1/0	BCRL						
2.00 miles	1/0	BCRL		ECKL BCRL	ور د د	BCRL	6/3	2
DOT	£ 2	Ž	ž	ž	6/3 6/3	BCRL BCRL	6/3	BCRL
Endrin	5 2	2	≨.	ž	0/2	PCK.	20	BCRL
Isodrin	0/1	BCR.	I/o	BCRL	0/3	BCRL	2,5	BCRL
Arsenie	W	2	· ;	DCK L	6/3	BCRL	6/0	BCKL
Marie	•	٤	≨	ž	6/0	BCRL	Ş	į
Market	ž	ž	£	ž	V.	!	*	BCKL
ICP Metals				:	§.	£	ž	¥
Cadmium	\$	3	3	į				
Chromium	ž	≨	£ 2	≨ :	2	10 (3.4)	002	100
Lead	Ž :	≨ ∶	ź	₹	22	6.5 (2.2)	0/2	BCRL BCRL
Zinc	₹ ≵	Ž 2	≨ ;	₹	5	13 (4.9)	2:	8.0 (4.0)
n	•	Š	≨	≨	3/3	25-76 (38)	77	22 (11)
BCRL = Below Cerufied Reporting Limits	Limits						1	(96) 071

BCRL = Below Certified Reporting Limits (mean) = Geometric Mean including value for BCRL data 48/1 = micrograms per liter

WSA 2.4-1/WSA-1 Rov. 4/29/89

Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 45 of 66. 4.50 T Water

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	Well Frequency of Detections	Well 33024 of Range (geometric	Well Frequency of	Well 33025 of Range (geometric	Well Frequency of	Well 33030	Well	Well 33033
Volveile H. It			Celections	mean) µg/l	Detections	mean) µg/l	Detections	nemge (geomic. mean) µg/i
traductoristical Lightic Compounds	-31							
1.1 Dichloroethane	9/0	BCRI	2/2					
I.Z Dichloroethane	9/0	BCRI	7/0	ECXL.	0/2	BCRL	2/0	
1.1 Dichloroethylene	\$/0	10.78	7/0	BCRL	0/3	PCBI	* 5	BCKL
1,2 Dichlorochylene	7/0	מכפו		BCRL	2/0		7/0	BCRL
1,1,1 Trichloroeihane		1000	≨ ;	ž	Ź	N N		BCRL
1.1.2 Trichloroethane	9/0	1.0 (0.17) DC01	2/0	BCRL	6/0	בים ש	≨ §	≨
1.1.2.2 Trichloroethane	2 4	DCAL.	0/2	BCRL	20	1000	7/0	BCRL
Carbon tetrachloride	\$ <u>\$</u>	\$ 6	≨ ;	₹	ź	DCAL NA	0/2	BCRL
Chlorobenzene	670	DCRL	5/0	BCRL	0/4	100	\$	Ž
Chloroform		BCR.	6/0	BCKL	9/4	DCRL	7/0	BCRL
T-1,2 Dichloroethylene		EC. E.	0/3	BCRL	1/4	BCKL 1 0 45	2/0	BCRL
Tetrachloroethylene	2 5	BERL	0/3	BCRL	7/7	1:0 (0:43)	0/2	BCRL
Trichloroethylene) t	BCRL	6/0	BCRL	*/0	ECKL FOR	0/2	BCRL
	1.11	3.0-6.3 (4.7)	0/3	BCRL	4/0	ECK!	0/2	BCRL
Methylene Chloride	9/0	100	•		2	DUKE	0/2	BCRL
	2	BCKL	0/2	BCRL	6/0	RCB!	5	į
Volatile Hydrocarbons						T V	7/0	BCRL
Dicyclopentadiene	1/0	120						
Mcthylisobutyl ketone	ž	ž	. 2	Z Z Z	2/0	BCRL	0/2	BCRL
Volatile Arometic Organics				•	16	BCRL	1/0	BCRL
Bentene	10	17 (0.51)	5					
Ethylbenzene	9/0	PC01	2/2	BCRL	0/4	BCRL	2	
m-Xylene	1/0	ECR.	7/0		0/3	BCRL	25	
o and p-Xylene	1/0	BCR.	5	BCKL	0/4	BCRL	20	BCRL
Toluene	1/0	BCRL	0/3	BCRL BCRL	7 /0	BCRL	672	BCRL
Organization Communicate					*	BCKL	0/2	BCRL
Mustard Agent Related								
1,4 Oxathiane	1/0	I G.J G	į	i				
Dithiane	0/1	BCRL		BCRL BCR	2/0	BCRL	0/1	BCR1.
					7/0	BCRL	0/1	BCRL

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µgll = micrograms per liter

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	Wel Frequency of Detections	Well 33024 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33025 of Range (geometric	Well Frequency of	Well 33030 of Range (geometric	Well Frequency of	Well 33033
Oremosulfur Compounds.				1004	Detections	mean) µg/i	Detections	mean) µg/l
Chlorest mileton								
Chlotophenylmethyl sulface	1/0	BCRL	0/1	i a Ca	3			
Chlorophenylmethyl sulfoxide		BCRL FOR	0/1	BCRL BCRL	7/0	BCRL	0/1	BCRL
	•	BCKL	0/1	BCRL	0/2	ECK.	1/0	PCRL
Ortanonitoren Compounds					;	DCAL	I/c	BCRL
	ž	≨	ž	*	3	;		
Ottmobhospherous Compounds, GB - Agent Related				•	٤	£	Ž	ž
Diisopropylancihyl phosphonate	0/2	i a Ca	•					
Dimelhylinethyl phosphonate	0/2	BCRL	0/2		2/0	BCRL	0/1	ā
DECE	9/6	, co	•	DC.N.C.	0/2	BCRL	0/1	BCRL
	2	BCKL	0/3	BCRL	15/15	, , , , ,		•
Senivolatile Halogenated				!	CI/CI	0.4-0.2 (1.6)	6/0	BCKL
Live and the second								
nexachlorocyclopentadiene	0/2	BCRL	0/2		ī			
Organochlorine Penticides				True True	5/0	BCRL	2/0	
Ahhin	5							
Dieldrin	5/0	BCRL	6/0		***			
DOG	? ? ?	BCRL	0/3	BCRI.	*/0	12 E	2/0	PCE.
DOT	7/0	BCR	0/2	BCRL	* 5	BCRL PORT	70	
Endrin	7/0	BCRL	2/0	BCRL	56		2/0	BCRL
Isodrin	S =	BCRL	0/3	BCRL	0/4	אנאר מיניים	07	BCRL
	6/1	0.89 (0.50)	0/3	BCRL	9/6	PCE.	700	BCRL
Atsense	2/0	BCRL	0/2	I a D			7/0	BCRL
Mercucz	¥N	;	:		4/0	BCRL	0/2	BCRL
KP Merals	<u> </u>	Ę	£	≨	0/1	BCRL	1/0	1829
							•	
Chemina	2/0	BCRL	0/2	3	į			
Copper	0/2	BCRL	0/2	BCRL	1/4		2/0	BCRL
[red]	7.0	BCR.	0/2	BCRL	7/0	(0.1)	70	BCRL
Zinc	1/2	DCKL 120 (£0)	2/0	BCRL	4/0	PCB!	70	BCRL
NA m Nos de alesas	• • • • • • • • • • • • • • • • • • • •	(60) 071	2/2	28-81 (47)	3/4	26.250 (40)	2/0	BCRL
1 1				•		(64) 007-07	น	64-72 (68)
Ħ	Limits walue for BCRL	data						
12811 : micrograms per liter								

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	1																													
	1042 Range (geomic	mean) µg/l	Ą	₹ ₹	≨	₹	Ź	ž	Ź	₹	Ź	₹	Ź	≱:	£	Ź		ž	£		;	≨ ;	≨:	≨	Ź	ž			≨	\$
	33																													
	We Prequency of	Detections	≨	Ź	Ź:	≨.	≨ ∶	≸ ∶	≨ :	≨.	ž	≨:	≨ ;	≨ ∶	ξ	≱		ž	≨			٤ :	\$	٤ :	≨;	≨			≨:	£
	Range (geometric	mean) µg/i	£	Ž,	≨:	≨ :	≨ ≨	≨ ≵	\$	£ :	\$:	\$	5 5	₹ ₹		≨		≱ :	≨		XX	. ×	.	.	£ £	≨			Ž 2	\$
7 of 86.	Well 33041	Ě																					-	-		-			~ ^	•
Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 47 of 66.	Well Frequency of		≨:	≨ :	\$	\$ 2	£ \$	Į.	Ž	. ×	2	. 2	Ź	≨	¥	Ş		≨ ≵	<u> </u>		≨	ž	£	¥N	. ≨			į	≨ ≴	
Study /	ic P																													
• Western	3040 Range (geometric mean) µg/l		BCRL	RCR L	BCRL	BCRL	BCRL	Ź	BCRL	BCRL	5.2 (2.6)	BCRL	BCRL	1.1-15 (4.1)	BCRI.		:	≨ ≴			5.8 (2.9)	BCRL	BCRL	BCRL	BCRL	1		•	≨ ≨	
er of th	Well 33040 of Range										•										₩.									
Mined Aquit	We Frequency of Detections		0/2 0/2	1/0	1/0	0/2	0/2	≨	0/2	0/2	1/2	1/0	0/2	2/2	0/2		1	₹		:	77	0/2	0/2	0/2	2/0			*	. ≨	
Ne Unec	tric																													
Results for th	Range (geometric mean) µg/l	aSa	BCRL	BCRL	ž	BCRL	BCRL	≸ 8	HCKL	BCRL	BCRL	BCRL	BCKL	6.2 (6.2)	BCRL		I d J d	BCRL		i de Ca	DCRL	PCRL	DCB.	SCR.	BCRL			BCRL	BCRL	
alyrical I	Well 33039 of Range																													
ndwater An	We Frequency of Detections	म्पूर १७०	0/1	1/0	≨ ₹	7	70	\$	7 5	7 2	7.0	70	7.	-	0/1		1/0	0/1		1/0		5	1 2		0/1			0/1	0/1	
of Grou		Yolatik Halogenated Organic Compounds 1,1 Dichloroethane																												
(ummur)		Organic ne	2.	lene	che Lene	A 60 6	chane	de	}		ara v	1	2					tone	nics								4			
4-1 S		cnated	oroctha	oroethy	Chloring	House	nchloro	rachlor	Zene		bloroeth	octhyle	thylene		vide	Subous	tadione	utyl ke	ic Ores		ņ¢		S			ALCOUR.	Related	2		
WSA 2		ile Halogenated Or. 1,1 Dichloroethane	1,2 Dichloroethano	1.1 Dichloroethylene	1.1.1 Trichlomerhane	1.1.2 Trichlovechane	1.1.2.2 Trichloroethene	Carbon tetrachloride	Chlorobenzene	Chlorofenn	T-1.2 Dichloroethylene	Tett schloroeihvlene	Trichloroethylene		Methylene Chloride	Volatile Hydrocarbons	Dicyclopentadiene	Methylisobutyl ketone	Volatile Aromatic Organica	Benzene	Ethylbenzene	m-Xylene	o and p-Xylene	Tohnene	1	ulfur Co	Mustard Agent Related	1,4 Oxathiane	Dithiane	
Tebl		Yolati 1,			-	·		J	Ü	์ ਹ	Ļ	Te	Tr		Methyl	Volatile	Die	Ä	Volatile	Ber	Euh	E	0	Tol	•	Organosulfur Coginounds	Mustag	1.4	Ö	

NA BCRL (mean)

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

mean) = Geometric Mean including value for BCRL data

µ8/1 = micrograms per liter

Projection Pro	Protections	labe WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area.	ndwater Analytics	A Results for the Un	confined Aquiter of	of the Western Stuc		Page 48 of 66.		
December December	Decision		Well Frequency of Detections	33039 Range (geometric mean) µg/l	==	33040 Range (geometric	Well Frequency of	33041 Ringe (geometric	Well Frequency of	33042 Bane (
Chloropienopi sulface	Chicacopionity suffice 011 BCRL NA NA NA NA NA NA NA N	Organosulfur Compounds. Herbicide Related					Detections	mean) µg/l	Detections	Mean) µg/
Carbonic Parison	Decision Decision	Chlotophenylmethyl sulfide Chlotophenylmethyl sulfone Chlotophenylmethyl sulfone	0/1	BCRL BCRL	\$ \$	ž	ž :	\$	7	į
Capolic Land Capo	Part	Orraingle Comment	0/1	BCRL	X	₹ ≵	\$ \$	≨ ≨	2	≨ ≨:
Name	No. No.	Caprolactam	¥	\$	Ž	ž			ξ	₹
	Single-pop-lanethyl phosphonate 0/1 BCRL NA	Orterophosphorous Compounds, GB - Asen Related			•	£	£	\$	ž	¥
10 10 10 10 10 10 10 10	1979 1970 1970 1971	Disopropylmethyl phosphonate Dimethylmethyl phosphonate	071 0/1	BCRL BCRL	\$ \$	ž	ž	ž	ž	į
Differential connection of the property of t	Description	DBC		0.20-0.65 (0.45)		Y	\$	ž	££	£ £
Schleing Penicipes O/1 BCRL	Partie P	Semivolatile, Halogenated Organic Compounds				0.17-1.1 (0.30)	12/12	0.36-9.4 (0.88)	10/10	0.64-2.82 (1.5
Name	No. No.	Hexachlorocyclopentadiene	0/1	BCRL	Ž	3	;			
December Orange	Secondaria O/1 BCRL NA NA NA NA NA NA NA N	Organochlorine Pesticides			į	٤	≨	ž	¥	ž
DEF 10, 1 BCRL NA	DE	Akrin Dieldrin	0/1	BCRL	\$	470				
March Marc	## Not Analyzed ## Not Analyzed ## Not Analyzed ## Not Analyzed ## Modelin	DOSE	0/1	BCRL	.≱:	₹ ≵	£ £	Ž 2	ž	\$
## NA	## NA	Entrin	0/1	BCRL BCRL	Ž 2	≨ :	≨	₹ ≵	Ž ž	ž
1	14	Isodrin	0/1 0/1	BCRL BCRL	₹ ₹	\$ \$ \$	ŽŽ :	≨≨	₹ ≵ ≵	≨ ≨;
## NA	MA	Arsenic	1/0	BCRL	. 4	٤ ۽	₹	ž	₹	\$ \$
denium denium denium denium denium denium 0/1 BCRL NA N	Max Max	Mercury	1/0	ECR.		≨ .	ž	ž	≨	\$
denium O/1 BCRL NA	denium 0/1 BCRL NA	ICP Metels			٤	\$	ž	ž	ž	Ź
pper Of the NA	Poper	Cadmium Chromium	1/0	BCRL	≨	ž	2	į		
NA N	## NA	Copper	1/0	BCRL	ž	Ź	₹ ≵	žź	≨:	ź
= Not Analyzed = Not Analyzed = Below Certified Reporting Limits = Geometric Mean including value for BCR1. data	= Not Analyzed = Not Analyzed = Below Certified Reporting Limits = Geometric Mean including value for BCRL data = micrograms per liter	Zinc	1/0	BCRL	₹.	≨ ≨	\$ \$	≨;	\$ \$	≨≨
= Below Certified Reporting Limits = Geometric Mean including value for BCR1 data	 Below Certified Reporting Limits Geometric Mean including value for BCRL data micrograms per liter 	Ħ		49 (49)	≨	¥	5₹	≨ ≨	\$ \$	3
	Ħ	H H	Limits walve for RCR1 A	* * * * * * * * * * * * * * * * * * * *						٤

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Well 33 Peometric Frequency of Detections RL 0/5 RL 0/4 RL 0/6	Frequency of Range (geometric Frequency of Range (geometric Detections mean) µg/l Detect	Well Frequency of Detections	the Unconfined Aquifor of the Western Study Area. Page 49 of 66.		
Precisions	Frequency of Range (geometric Frequency of Range (geometric Detections mean) µg/l NA	Well Frequency of Detections			
### No. 10 10 10 10 10 10 10 10 10 10 10 10 10	Tanic Compounds No. 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		33046 Range (geometric	Frequency	33047 Range (geomic
No.			1/24 (1991)	Defections	mean) µg/l
No.					
No.		9/2	10.2	516	
1		0/5	1 a 2	5/0	BCRL
1		0/4	Ta Da	S/0	BCRL
1		7/0	DC01	0/4	
No.		. ·	DCKL 70 % 15	0/4	BCRL
THE COLOR OF THE C		5/1	0.79 (0.16)	9/2	BCRL
No. 1			0.80 (0.16)	4 /0	RCRI
No.		\$;	≨	₹	MA
1		0/4	BCRL	7/0	S 2
THE TOTAL OF THE T		9/0	RCRL	770	DE K
	* * * * * * * * * * * * * * * * * * *	2/6	0.52-0 71 (0.20)	0/0	BCRL
1	* * * * * * * * * * * * * * * * * * *	0/2	DCDI	0 9	BCRL
THE TOTAL STATE OF ST	\$ \$ \$\$ \$\$\$\$\$ \$ \$ \$\$ \$\$\$\$\$ \$ \$ \$\$ \$\$\$\$\$ \$ \$ \$\$ \$\$\$\$\$	9/0	P.C.	2/0	BCRL
NA N	 \$ 22 2222 	9/9	10 10 (13)	9.	2.4 (0.40)
1/3 11 (2.2) 0/3 1/4 11 (2.2) 0/3 1/4 1/6 1/4 1/5 11 (2.2) 0/3 1/6 1/6 1/4 1/6	*	<u>;</u>	(61) 61-01	9/6	0.71-2.4 (0.96)
*** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** **	* * * * * * * * * * * * * * * * * * *	1/5	11 (2.2)	٥/٢	
*** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** **	* * * * * * * * * * * * * * * * * * *			Ç.	BCKL
*** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** **	* * * * * * * * * * * * * * * * * * *				
** ** ** ** ** ** ** ** ** ** ** ** **	*	≨:	ž	2	¥1.0
NA N	***** **** **** ****	£	ž	≨	₹ ₹
NA N	**** **** ****				
1/6 5.0 (0.83) 0/6 (0.	2222 2222 2222				
MA NA	*	1/6	50 083	7,0	
2	* * * * * * * * * *	9/8	1000	0/0	
MA NA	* * * * * * * * * * * * * * * * * * *	9/6	DCAL	٥/٥	BCRL
NA N	*** *** ***	9/0	BCRL	9/0	100
NA N		9/0	BCRL	9/0	200
* * * * * * * * * * * * * * * * * * * *	Recognific Compounds.	0/0	BCRL	9/0	102
	***	3			
	₹ 1	≨ ;	≨	\$	7

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mcan) = Geometric Mean including value for BCRL data

µg/1 = micrograms per liter

	į							
	well Frequency of Detections	well 33043 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33044 of Range (geometric	Well Frequency of	Well 33046 of Range (geometric	Well Frequency of	Well 33047
Orenosulfur Compounds. Herbicide Relaied					auguran)	mem) µg/l	Detections	mean) µg/l
Chlorophenylmethyl sulfide	£	Ą	i					
Chlorophenylmethyl sulfone	Ź	₹	₹ ≵	≱ ∶	Ž	ž	ž	ź
omen's men's railoxide	ž	Ž	. ₹	£ 2	≨ ∶	₹	≨	£ 2
Ortmeniveren Compound					\	\$	ž	≨
Caprolaciam	ž	ž	Ž	Ž	;			
Oreansphosphosous Compounds, GR Arent Related				<u> </u>	ž	\$	ž	ž
Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	≨ ≨	žā	ž	ž	ž	Ž	i	
DBCP	8	£ ;	£	\$	Ź	₹.	≨ ≵	≨≴
	6/6	0.29-0.90 (0.41)	10/10	0.72-3.1 (1.4)	0/17			•
Semivolatile Halogengied Organic Compounds					71/2	BCKL	9/2	BCRL
Hexachlorocyclopentadiene	ž	ž	Ą	3				
Ortsnochlorine Perticides			•	٤	≨	ž	ž	ž
Aldrin	*	.₹	Ϋ́	ž				
DOE	Ž 2	Ž	. ≨	₹ ≵	žž	ž	ž	2
DOL	∑ ₹	≨ ∶	Ž.	≨	\$ \$	≨≨	ž	≨
Endrin	≨	\$ \$	≨;	ž	≨	\$ \$	Źź	ž
lsodrin	ž	₹	₹	\$ \$	ž	Ź	₹ ≵	Ž 2
Arsenie	₹	¥	¥N		٤ :	£	ž	.₹
Merciny	;			٤	ž	Ž	\$	ž
	٤	£	≨	ž	¥N.	2		•
ICP Metals					Ę	ž	£	ž
Cadimium	₹	NA.	1					
Chromium	₹	₹ ≵	\$ \$ 2	≨ ≥	ž	ž	MA	24
Copper	ž	≨	\$ 7	≨ :	≨	ź	₹ ₹	≨ \$
Zipe	Į.	¥	. ≨	₹ ₹	≨:	ž	. ≨	€ ₹
	≨	ž	₹	S 3	≨:	≱.	Ž	\$ \$
IN Not Analyzed				•	٤	₹	MIA	

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	,		ı																													
	3063 Range (reomic	mem) µg/l		12 E		ECE!	Z X	BCR1.	EC.	NA	30	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	שלים שלים	BCKL	BORL BORL	BCRL	ı	BCRL		Bee	BCRL			BCR.	BCRL	BCRL	BCRL	BCRL			BCRL	BCRL
	Well 33063 Prequency of Ran	Detections		0/1	0/1	0/1	Ź	0/1	1/0	₹	0/2	0/2	2,0	0/2	2/0	0/2	;	1/0		2/0	1/0		\$	2/0	7,6	7/0	2/0	7/0			200	7/0
estem Study Area. Page 51 of 66.	Range (geometric	mean) µg/l	;	≨ ;	≨ ∶	≨∶	≨	₹	≨	≨	≨	Ź	₹	Ź	≨:	≨	Ž	ş		Ž	₹		MA	5 2	5 ≵	· N	S &	Ş			Ž Ž	•
Line Control Landy Area. Page 51	Well 33062 Frequency of Rang	Detections	ž	≨	2 :	Ž 2	≨ :	Ž 3	≨ :	≨ ;	≨ ;	₹;	≨.	≨ ∶	Ž 2	Ş	ž	•		≨;	ž		≨	≨	Ž	ž	Ź			;	₹	
f the Western Stud	13061 Range (geometric mean) us/l	18 d (BCPI	RCP!	BCo.	NA	Ja-Ja-Ja	BCP!	NA	1000	ם משנים	BCBL	DCR.	BCR.	1.9-9.9 (4.9)	()	BCRL			BCRL NA	<u> </u>		BCRL	BCRL	BCRL	BCRL	BCRL			i e C g	BCRL	
confined Aquifer of t	Well 33061 Frequency of Rang Detections m		0/2	0/2	0/1	₹	0/2	0/2	ž	0/3	5.6	6/3	£/0	56	3/3		0/2		:	- -			c/o	0/2	0/3	6/3	5/0			1/0	0/1	
Results for the Un	33060 Range (geometric mean) µg/l		BCRL	BCRL	BCRL	₹	BCRL	BCRL	ž	BCRL	BCRL	BCRL	BCR1.	BCRL	7.1-9.8 (5.6)		BCRL		1000	SK.			1.3 (0.43)	BCKL	BCB!	DCK!	BCKL			BCRL	BCRL	
ndwater Analytical	Well 33060 Frequency of Range Detections me	nds		0/2	1/0	≨	0/2	0/2		0/3					2/3	ç	7/0		1/6	ž			5,5	7.0			c/o			1/0	1/0	
Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 51 of 66.		Volatile Halogenated Organic Compounds	1.1 Dichloroethane	1.1 Dichterant	12 Dicklosseskelter	1.1 Tricklesser	1 1 Trickless	1.1.4 Intendednance	Carbon factorial	Car wan terrachionide	Chiorocazene	Chiotologia T 1 2 District	1-1,4 Dichloroethylene	lefrachloroethy]ene	Irkniordeinylene	Methylene Chloride		Volatile Hydrocarbons	Dicyclopentadiene	Methylisobutyl ketone	Yolstile Aromatic Organics	Benzene	Ethylbenzene	m-Xylene	o and p-Xylene	Toluene		Orthogolfur Compounds.	Mustard Azert Related	1,4 Oxadhiane	Dimine	
Tach		- Kela							•	•		- "		~ 1*	-	Methy		Voleti	1	4	Volati	81	ш	E	٥	Ţ		Orean	Muste	- ;	J.	

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

H8/1 = micrograms per liter

Lable WSA 2.4-1 Summary of Groundwater Analytical Results for	Indwater Analytic		confined Aquife	the Unconlined Aquifer of the Western Study Area.		Page 52 of 66.			
	Well Frequency of Detections	Well 33060 of Range (geometric ns mean) µg/l	Well Frequency of	Well 33061 of Range (geometric	Well Frequency of	Well 33062	Wel	Well 33063	ı
Orranosulur Compounds. Herbeide Related				mean) µg/l	Detections	mean) µg/l	Detections	Range (geomic. mean) µg/l	
Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone Chlorophenylmethyl sulfoxide	0/1 0/1 0/1	BCRL BCRL BCRL	0/1 0/1	BCRL	ž ž	Ž Ž	2/0	BCRL	
Organopikoren Compound Captolacian	ž		1	BCRL	Ž	Ž	072	BCRL	
Octavophosphorous Compounds. CB.: Aken Releved		<u> </u>	₹	Ź	ž	ž	\$	¥	
Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	0/2 0/2	BCRL BCRL	0/2 0/2	BCRL 1	ź	×	0/2	i d	
Dice Semivolatile Halogenaued	2/11	0.24-0.31 (0.05)	1/3	0.60 (0.20)	8/8	NA 0.94-3.1 (1.6)	2/0	BCRL	
Organic Compounds Hexachlorocyclopentadiene	2/0	PC91				.	}	1.7-3.2 (1.5)	
Organochloring Peniciales		7	2/0	BCRL	ž	¥	0/1	BCRL	
Dictorin DDE DOT	6/2 6/2 6/2	BCRL BCRL	0/3 0/3 0/2	BCRL BCRL BCR	\$ \$ \$	£ £	1/2	0.08 (0.04)	
Endrin Isodrin	0/3 0/3 0/3	BCRL BCRL BCRL	0/2 0/3	BCRL BCRL	\$ \$ \$	£ £ £	100	9/1 0/1	
Arsenic	. 2/0	BCRL	6/5	BCKL BCe!	ž :	¥	0/2	BCRL	
Mercua	ž	ž	₹ .	Ty M	≨ ;	ž :	2/0	BCRL	•.
ICP Metals Cadmium	!			Ę	≨	₹	0/1	BCRL	
Chromium Copper Lead Zinc	0/2 0/2 0/2 2/2	BCRL BCRL BCRL BCRL 10.16 (31)	0/0 0/0 0/0 0/0	BCRL BCRL BCRL BCRL	\$ \$\$\$	222	0/2 1/2 0/2	BCRL 8.8 (4.4) BCRL	
NA = Not Analyzed BCRL = Below Certified Reporting Limits (mean) = Geometric Mean including value for BCRL data H8/l = micrograms per liter	Limits value for BCRL d	20-20 (32) kata	7/1	31 (16)	æ	≨ ≨	7. 7. 7.	23 (12) 98 (49)	

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquiter of the Western Study Area. Page 53 of 66.

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	Well Frequency of Detections	33064 Range (geometric mean) µg/1	Well Frequency of Detections	Well 33065 of Range (geometric	Well Frequency of	Well 33066 of Range (geometric	
				184 (Detections	mean) µg/l	
Volstike Halveensted Organic Compounds	4						
1.1 Dichloroethane	2/0	202	7/0				
1,2 Dichloroethme	20		* :	BCAL	0/3	BCBI	
1,1 Dichloroethylene	SS	BERE	0/4	BCRL	20	100 a	
1.2 Dichtoroethylene	7/0	BCKL	0/3	BCRL		BCRL BCRL	
1 Trichlyman	7/0	BCRL	0/3	BCBI	4 6	BCKL	
1 2 Telephotogram	0/3	BCRL	2/4	0.7-0 98 70.413	7/0	₹.	
tite intendeduane	0/3	BCRL	7/4	1000	3/3	2.0-3.0 (2.5)	
1,1.2,2 Trichlordethand	Ź	. ≥	f 4	בראני ביני	1,3	2.0 (0.67)	
Carbon tetrachloride	6/0	I d.J.	<u> </u>	Ž	≨	. ₹	
Chlorobenzene	20	DCR.	6/0	BCRL	0/3	BC91	
Chloroform	676	BCKL PORT	0/4	BCRL	0/3	Jacq	
T-1.2 Dichloroshulena	6/0	BCRL	0/4	BCRL	2	DCR.	
Terrachizzashallar	1/0	BCRL	1/0	BCRI		BCKL	
Trichlander	0/3	BCRL	0/4	Paca.	7,0	BCRL	
i ikulolocinylene	0/3	BCRL	4/4	1.21 C.1	٥/٥	BCRL	
			<u>.</u>	(7.1) 1.7-0.1	3/3	4.0-5.0 (4.3)	
Methylens Chloride	6/0	BCRL	0/4	BCRL	6/0	ָּ בַּבְּ	
Volstile Hydrocarbons)	DCAL	
Dietertonantedine							
Marketterhanden	≨.	Ź	₹	¥	***	•	
menty isobaty! Ketone	≨	≨	ž	. ≱	\$	≨ :	
Volatile Ammatic Organica				:	5	₹	
Benzene	5						
Ethylbenzene	5/0	BCRL	0/4	BCRL	ຊ	1000	
m.Xview	6/0	BCRL	0/4	BCRL	20	DCRL DCR:	
o seed in Yestern	c/a	BCRL	0/4	BCRI		BCKL	
Tolliers	6/3	BCRL	0/4	BCRL	7/0	BCRL Post	
	6/3	BCRL	0/4	BCRL	50	BCKL PCut	
Organisting Comments						שרינר	
Mussard Arent Pelsted							
1.4 Orathina		i					
Dithing	₹ \$	≨ ;	Ž	₹	ž	**	
	€	≨	Ź	≨	Ž	S	
				•	•	Ş	

NA = Not Analyted
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data
µ8/1 = micrograms per liter

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Arequency of Detections Orenceillur Compounds. Harbicide Related Chlorophenylmethyl sulfide Chlorophenylmethyl sulfide Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone NA	Well 33064	:					
sulfide sulfone sulfoxide	of Range (geometric s mean) µg/l	Frequency Detection	well 33003 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33066 of Range (geometric		
methyl sulfide methyl sulfone methyl sulfoxide					rad (man)		
	¥N	i				•	
	₹ ≵	2 2	Ž ž	≨ :	\$		
	ž	\$	₹	\$ \$	₹:		
Organius con Compound Caprolactam	ž	Ž		£ ;	£		
Organophosphorous Compounds, SE - Agent Related		į	<u> </u>	٤	≨		
Dissopropylmethyl phosphonate NA Dimethylmethyl phosphonate NA	22	\$ \$	Ž 2	\$;	ž		
DBCP 0/12	BCRL	: V0	ָּבָּ בְּיִבָּ	£ 5	£		
Semivolatile Halogenated		}	TANK.	6/0	BCRL		
Hexachlorocyclopentadiene NA	ž	ž	Ą.	į	į		
Organschloring Pesticides		•	<u> </u>	£	≨		
	\$	Ž	42	ż			
DOE NA	≵ ;	≨	₹ ≵	₹ ₹	Ž 2		
	\$ \$	≨ :	ž	≨	₹ ≵		
Endrin	₹ ≨	≨ ≵	Ž Ž	≨ ∶	Ž		
	ž	ž	₹≨	₹	\$ \$		
Atenie	\$	ž	\$	· V			
Marcul	\$	ž	Ž		٤ ;		
ICP Metals			•	<u> </u>	ž		
	ž	Ą	3	;			
Chromum	Ź	₹ ≵	Źź	≨:	¥		
N Pades	2	≨	≨ ≵	₹ ≵	≨ ;		
Zinc	Ž	¥	ž	≨	Ž 2		
Not Analyzed	¥	≨	ž	ž	<u> </u>		

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	Well Frequency of Detections	Well 33067 of Range (Roometric ns mean) µg/l	Well Frequency of Detections	Well 33068 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33069 of Range (geometric	
Volume Helomana Maria	_					incent) page	
THE TAIL AND THE PARTY OF THE P							
1.1 DENOTOCINEDE	0/4	BCRL	٢/٥	i de Ja		i	
1,2 Dichloroethane	0/4	RCE		BCAL For:	0/4	BCRL	
1.1 Dichloroethylene	0/3	2000	0/3	BCRL	9/4	BCRT.	
12 Dickly controller	C/0	BURL	0/2	BCRL	٧/	1000	
	6/3	BCRL	0/2	BCPI		DCR.	
1.1.1 Irichlorocthane	4/4	3.0-5.4 (3.6)	1/6	2000	6/3	BCKL	
1.1.2 Trichloroethane	0/4	BCP!	616	0.80-1.0 (0.60)	0/4	BCRL	
1.1.3,2 Trichloroethane	. ₹	MA	5/0	BCRC	0/4	BCRL	
Carbon tetrachloride	.		≨ :	Ź	£	Ž	
Chlombenson	6/0	FERE	0/3	BCRL	1/0	1878	
Charle	4/0	BCRL	6/3	BCBI		BCAL.	
Chlorotorm	0/4	BCRL	5	2000	t /0	BCKL	
T-1,2 Dichloroethylene	1/0	BC81		0.30 (0.17)	0/4	BCRL	
Tetrachlorocitylene	7/0	a	7,5	BCAL	0/1	BCRL	
Trichloroethylene	117	TO SE	٥/٥	BCRL	0/4	ומטש	
	* / *	5.0-8.7 (6.2)	3/3	1.0-2.6 (1.7)	4/4	27.3.7 (3.1)	
Methylene Chloride	0/4	BCRL	7/0	i a d		(1.5)	
			2	DCAL	4/0	BCRL	
Volatile Hydrocarbons Dicyclopentadiene Methylisobutyl ketone	£ £	£ £	₹ ₹	\$ \$	Žź	Ž:	
1 1 1 1				Š	٤	₹	
Yolstile Aromalic Organics Benzene	0/4	BCRL	6/3	ia	š	į	
Ethylbenzene	0/4	BCRL	0/3	BCRL	4/0		
m-Ayene	0/4	BCRL	6/3	BCRL	0/4	BCR L	
Toluene	4,0		0/3	BCRL	0/4	BCRL	
	* 70	DCAL	6/9	BCRL	0/4	BCRL	
Organization Compounds,							
1,4 Oxathiane	Ž	*	***	į			
Dithiane	ž	. ≨	₹	\$ \$	\$ \$	£ :	•
				,	Ş	£	

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

lable WSA 2.4-1 Summary of Groundwater Analytical Results for the Uncontined Aquifer of the Western Study Area. Page 56 of 66.	Nowaler Analytics	Il Results for the Un	confined Aquife	of the Western Stu	dy Area. Page 5	8 of 66.	-xt	Ö
	Well Frequency of Detections	Well 33067 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33068 of Range (geometric ns mean) us/l	Well Frequency of	Well 33069		
Oceanosulfur Compounds.					Cerculons	meen) µg/l		
Habierie Related								
Chlorophenylmethyl sulfade Chlorophenylmethyl sulfane	Ž Ž	Ž Ž	\$ \$	22	Ž	₹		
chotophenyimenyi tulloxide	\$	ž	ź	₹ ₹	\$ \$	≨ ≥		
Orrenoningen Compound				•	ξ	٤		
Caprolactum	ž	ž	ž	¥X	3	;		
Organophospherous Compounds.				•	٤	ž		
District Octable								
Dissopropylmethyl phosphonate Dimethylmethyl phosphonate	£ £	\$ \$	Ž 2	ž	ž	ž		
Dare	!		Ş	\{	₹	Ž		
	6/3	BCRL	6/0	BCRL	6	1404		
Semivolatile Halogenated					C C	BCKL		

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

Hg/l = micrograms per liter

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ICP Metals
Cachnium
Chromium
Copper
Lead
Zinc

Mencury Arsenic

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Organic Compounds
Hexachlorocyclopentadiene

Organochloring Praticides

Aldrin Dieldrin DOE DOT Endrin Isodrin

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area.	Groundwater Analytic	B Results for the Un	confined Aquiter	of the Western Stu	dy Area. Page 57 of 66.	7 of 66.	
	Well Frequency of Detections	Well 33070 of Range (geometric 18 mean) µg/l	Well Frequency of Detections	Well 33071 of Range (geometric 18 mean) µg/l	Well Frequency of Detections	Well 33072 of Range (geometric	
Volatile Habatnated Organic Communds	apainate.					right (mann)	
1.1 Dichloroethane		Ä	į				
1.2 Dichloroethene	<u> </u>	≨ ;	≨:	≨	ž	¥X	
1.1 Dichloroethylene	≦ ≩	≨ :	≨	Ź	≨	€ ₹	
1.2 Dichlorgelhylene	£ :	≨ ;	≨	ž	Ž	Ž	
1 1 Tricklesser	≨ ;	≨:	≨	Ź	NA.	≦ ≵	
1,1,1 HIGHOROGUESTO	ž	≨	₹	₹	2	٤;	
1.1.2 Irichiorocthane	₹	ž	¥N.		٤ ;	Ž:	
1,1,2,2 Trichlorocthane	₹	≨	2	\$ 3	≨ :	≨.	
Carbon tetrachloride	Ź	×	2	<u> </u>	≨ ;	₹	
Chlorobenzene	≨	X X	S S	\$;	≨ .	≨	
Chloroform	¥2	X	≨ ≨	≨ ;	≨	ž	
T-1,2 Dichloroethylene	Ž	≨ ≵	§ :	≨ ;	≱	Ź	
Tetrachlorocthylene	* *	٤ ۽	≨ :	≨ ∶	Ź	₹	
Trichlomethylene	5.3	٤:	≨ :	ž	ž	Ž	
	ž	\$	\$	¥	ž	≨	
Methylene Chloride	¥	ž	ž	ž	₹	ž	
Yolatile Hydrocarbons						j -	
Dicyclopentadiene	**	MA	3				
Methylisobutyl ketone	Ž	S S	≨ ;	≨	≨	ž	
	Ş	₹	≨	₹	≨	ž	
Volatile Aromatic Organica						•	
Benzene	¥X	M	5				
Ethylbenzene	NA N	S S	£ :	≸ ;	Ź	£	
m-Xykre	5 2	٤ ۽	≨ :	≨.	Ź	Ź	
O and n. Xylene		٤:	€ :	≨	≨	ź	
Tollians	5:	≨ ;	≨	≨	ž	Ž	
a circiae	≨	₹	¥	Ź	. ≨	€ ₹	
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Oxenosulfur Compounds.
Mustard Agent Related
1,4 Oxathians
Dithiane

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

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	Well Frequency of Detections	Well 33070 of Range (geometric ns mean) µg/l	Well Frequency of Detections	Well 33071 of Range (geometric ns mean) ue/l	Well Frequency of	Well 33072 of Range (5:20metric
Organosulfur Compounds, Herbiciske Related					\$ HOUSE	mem) µg/l
Chlorophenylmethyl sulfide Chlorophenylmethyl sulfide	ž	≱ :	ž	ž	47	:
Chlorophenylinethyl sulfoxide	₹ ≵	₹	Ž Ž	2 2	≨ ≨ ;	₹ ₹
Orsenonitosen Compounds Caprolaciam	ž	≨	4 2	£ ;	≨	ž
Orrenophosphorous Compounds, OB : Agent Related				≦	ž	*
Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	3 3	£ £	22	≨ ;	Ş	ź
DBC	6/9	0.36-0.68 (0.34)	3/8	X		*
Semivolatile Halorenated Oreanic Compounds			}	(21.0)	11/7	0.28-0.33 (0.06)
Hexachlorocyclopentadiene	¥	Ž	ž	ž	4	į
Organochloring Pesticides					Ę	£
Diektrin	≨ ∶	\$	ž	Ą	174	;
100	₹ \$	≨ ź	ž	. ₹	₹ ₹	Ž 2
	Ž	≨ ≨	≨ ≨	≨;	ž	€ ₹
Endin	¥	. ≨	\$ \$	ź	Ž.	×
Hipor	Ź	ž	≨	\$ \$	Ž Ž	**
Arsenie	2	ž	£	ž	. 3	≨ ;
Marsury	\$	ž	ž	. 2	§ ;	≨
ICP Metals			,	<u> </u>	£	₹
Cachnium	ž	ž	W.	i		
Corner	≨ ;	≨.	. ≨	£ £	2 2	Ž
Lead	£ 2	≨:	\$	≨	₹	¥
Zinc	≨	X 2	₹:	≨ ∶	≨	5
NA = Not Analyzed	•	<u>s</u>	£	≨	≨	X
0						
(mem) = veometric Mean including value for US/I = micrograms replies	value for BCRL data	dota				

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area. Page 59 of 66,

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	Well Frequency of Detections	Well 33073 of Range (geometric ns mean) µg/l	Wel Frequency of Detections	Well 33074 of Range (geometric	Well Frequency of	Well 33075 of Range (geometric	Well Frequency of	Well 33077
Volstile Habsenster Oranic				mean) µg/i	Detections	mean) µg/l	Detections	mean) µg/l
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
1,1 Dichiologinane	≨	ž	7/0					
1,2 Dichlorocthane	ž	* 2	7/0	BCKL	7 /0	BCR.	2	
1.1 Dichlorocthylene	X	5 2	0/4	BCRL	0/4	laca	2 2	BCRL
1,2 Dichloroethylene		£ ;	74	2,0 (0.50)	*/*	2 × 0 0 0	0/3	BCRL
1.1.1 Trichlomethere	٤ :	\$	4 /0	BC'R1	7 6	6.0-8.1 (6.5)	5	BCRL
	2	≨	4/4	1 2 2 2 2 2	6/0	BCRL	0/2	10/0
1,1,7 Inthiorochane	₹	*	7,	3.2-7.0 (4.6)	4/4	10-26 (15)	27	DCKL 0.4 1 4 50 mm
1.1.2,2 Trichloroethane	2		0/4	BCRL	1/4	20 (0.50)	2	0.84-1.4 (0.72)
Carbon tetrachloride	Ž	<u> </u>	₹	Ź	₹	NAN	5	BCRL
Chlorobenzene	2	٤ ;	0/3	BCRL	0/4	La Ca	٤;	≱
Chloroform	<u> </u>	Ž	0/4	BCRI	*/5	DCRL 0.00 to	6/3	BCRL
T.12 Dichlemanhul.	٤ :	ž	0/4	BCB1	* 6	0.28 (0.15)	0/3	
Translation is	₹	≨	Z	No.	0/4	BCRL	0/3	laJa
l cirachiorocthylene	Ź	**	5 3	ž	0/1	BCRL	Š	DC.N.C.
Tichloroethylene	X		6/0	BCRL	0/4	RCBL		BCKL
	:	Š	0/4	BCKL	4/4	16.40 (28)	2 5	ESE.
Methylene Chleride	7	777			•	(07) 01 01	5/5	4.2-7.2 (5.4)
	Ş	≨	4/4	1.0-5.0 (2.0)	0/4	10.70	5	
Volatile Hydrocarbons				•		DC.N.E.	£/a	BCRL
Divelopment	;							
Mark 1	≨	ź	N.	-	;			
meinyiisobulyl kelone	Ź	Ž	. ≨	ŽŽ		BCRL	0/1	BCB1
Volatile Ammetic Occasion				5	1/0	BCRL	0/1	E E
CAUSE LA AUSTRALIA CONTRACTOR DE CONTRACTOR								1
Denzene	₹	4 2		,				
Ethylbenzene	*	.	1/4	2.0 (0.50)	1/4	20.00.500	5	1
m-Xylene	5 2	≨ :	0/4	BCRL	0/4	(0:0) 0:4 10.00	6/0	BCR
o and n- Xulena	٤ :	≨	*	BCBI		DCRL POR	0/3	BCRL
	₹	ž	0/4	1000	* /0	BCKL	6/0	Post
1 Otherse	≨	Ž	1/3	DCRL	0/4	BCRL	2	Topic Control
		5	0/4	BCRL	0/4	BCB1.		BCKL
Orthogyliu Compounds.							c/o	BCRL
Mustard Agent Related								
1,4 Oxathiane	¥N	717						
Dithiane	5 3	≨ :	≨	ž	0/1	בפר		
	٤	٤	≨	≨	: 2	1 S S	7	BCRL
						DCNL.	Z/a	BCRL

NA BCRL (mean)

Not Analyzed
 Below Certified Reporting Limits
 Geometric Mean including value for BCRL data
 micrograms per liter

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Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconfined Aquifer of the Western Study Area.	Varia exerci undwater Analytica	Hesults for the Un	confined Aquifer	of the Western Stu		Page 80 of 66,	4	
	Well Frequency of Detections	Well 33073 Of Range (geometric	Well Frequency of Detections	Well 33074	Well Frequency of	Well 33075	Well Frontacy of	Well 33077
Oceanosulfur Compounds.				i/Srl (ima);	Detections	mean) µg/l	Detections	mean) µg/l
Chlorophenylmethyl sulfide	\$	ž	ž	474	;			
Chlorophenylmethyl sulfone Chlorophenylmethyl sulfoxide	Ž Ž	2	₹ ₹	\$ \$ \$	Z 6 6	BCRL BCRL	0/1 0/1	BCRL
Organication Courselled	:			•	1/0	BCRL	0/1	BCRL
C troise lain	ž	Ź	Ž	ž	Ź	ź	;	
Oremvelesselescos Compounds. GB - Asent Kelated					•	٤	£	ž
Diisopropylmethyl phosphonate Dimethylmethyl phosphonate	Ž Ž	₹ ≨	22	ŽŽ	0/1	BCRL	0/1	2
DBC	1/10	0.32 (0.03)	0/3	BCR.	7	BCRL	1/0	BCRL
Semivolatile Helogenaled Organic Compounds					6 /0	BCRL	6/3	BCRL
Hexachlorocyclopentadiene	¥	ž	\$	\$	1/0	iaSa		
Occanoshloring Pesticides					•	DCKL	0/1	BCRL
Aldrin Dieldrin	Ž Ž	\$ \$	≨ ∶	Ž	1/0	BCRI	Š	
	2	≨	₹ ₹	\$ \$	7,0	BCRL	15	
Endrin	≨	Ž 2	Ž :	.₹:	0/1		58	BCRL
Isodrin	.	₹.	≨	\$ \$	0/1	BCRL	1/0	BORL
Arenie	ş	ž	\$	ž	; ;	BURL	0/1	BCKL
Mercury	3	ž	2	i i	6	BCRL	1/0	BCRL
ICP Metals		• •	į	<u> </u>	1/0	BCRL	0/1	BCRI.

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BCRL 6.1 (6.1) BCRL BCRL 53 (53)

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ICP Metals
Cadmium
Chromium
Copper
Lead
Zinc

The second

NA = Not Analysed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Nean including value for BCRL dasa

Hg/l = micrograms per liter

Hav. 4/25/85

## Well 33078 Frequency of Range (geometric Frequency of Range	Handle Frequency of Range (geometric mean) µg/l Hopping of mean) µg/l Eccutions Mell 33506 Mell 3										
### Compounds 0/3 BCRL 0/3 BCRL NA	### Compounds 9/3 BCRL		Well Frequency of Detections	33078 Range (geometric mean) µg/l	Well Frequency of Detections	33079 Range (geometric mean) µg/l	Well Frequency of Detections	33506 Range (geometric mean) µg/l	Wel Prequency of Detections	1 33514 Range (geomic.	1
## BCRL 0/3 BCRL NA NA NA NA NA NA NA N	## BCRL NA	mated Organic Comp									1
## 173	## 10.03 BCRL 0/3 BCRL NA NA NA NA NA NA NA N	roethane		BCRL		BCRI	MA	M	3	;	
## 1/3	## 10/3 BCRL 0/3 BCRL NA	proethane		BCKL		BCR.	\$ \$	\$ \$	≨ :	≨:	
1/3 2.5 (0.83) 0/3 BCRL NY	The control of the co	orocthylene		BCRL		BCol	<u> </u>	≨ :	≨ :	≨	
## 1.1.2.7.C.1.) N.	## 17 080-1.1 (6.62) 2/3 1.1.2.7 (1.1) NA	roethylene		2.5 (0.81)		שלאל שלפו	≨	≨ ;	≨:	₹	
NA	Colored Colo	hlorocthane		0.80-1 1 (0.62)		1177 (11)	Ž :	≨ :	≨	≨	
And NA	Here High Name Name Name Name Name Name Name Name	hloroethane		RCBI		(1.1) /.2-1.1	≨ ;	≨ :	₹	₹	
0/3 BCRL 0/3 BCRL NA	## NA	richloroeiliane		NA NA		BCKL	≨.	Ź	≨	₹	
1	1,2	* ploride		¥ .		≨	₹	≱	₹	Ž	
## BCRL NA	1/3 BCRL NA NA NA NA NA NA NA N		7/0	HCKL	0/2	BCRL	≱	\$	2		
13 BCRL NA NA NA NA NA NA NA N	13	n/ene	6/3	BCKL	0/3	BCRL	Ž	¥Z		BCK.	
1/3	HA NA	E	0/3	BCRL	0/3	RCR1	NA.	5 5	7.0	ECK!	
1/3	1/3 4.9 (1.6) 1/3 0.77 (0.26) NA	at the completion of the compl	₹	₹	Ž	NA N	5 3	\$ \$	1/0	BCRL	
3/3 2.2-4.i (2.8) 1/3 0.65 (0.22) NY	3/3 2.2-4.1 (2.8) 1/3 0.65 (0.22) NA	octhylene	1/3	4.9 (1.6)	<u> </u>	(97.0) 77.0	<u> </u>	٤ ۽	0/1	BCRL	
10 0/3 BCRL 0/3 BCRL NA	0/3 BCRL 0/3 BCRL NA	thylene	3/3	2.2-4.1 (2.8)	1/3	0.65 (0.22)	§	\$ \$	7	BCRL	
0/3 BCRL 0/3 BCRL NA	0/3 BCRL 0/3 BCRL NA						:	Ş	1/0	BCKL	
NA N	NA N	lorid s	0/3	BCRL	0/3	BCRL	ž	¥	ž	ž	
NA N	NA N	carbons									
13	13	ntadiene	ž	ΝA	NA.	454	÷	;			
9/3 BCRL NA	9/3 BCRL NA	butyl ketone	¥	Ź	₹ ₹	≨ ≸	₹ ₹	\$ \$	\$	Ž Ž	
0/3 BCRL 0/3 BCRL NA	0/3 BCRL 0/3 BCRL NA NA NA NA 0/1 BCRL 0/3 BCRL NA NA NA 0/1 BCRL 0/3 BCRL NA NA NA 0/1 BCRL 0/3 BCRL NA NA NA NA 0/1 BCRL 0/3 BCRL NA	tic Organics								•	
9/3 BCRL NA	0.3 BCRL NA		270	1929	9						
0/3 BCRL NA	0/3 BCRL NA	1 5	6/0	BCKL BOD:	6/0	BCKL	≨	≱	1/0	RCRI	
0/3 BCRL NA NA 0/1 0/3 BCRL NA NA 0/1 0/3 BCRL NA NA 0/1 0/3 BCRL NA	0/3 BCRL NA NA 0/1 0/3 BCRL NA NA 0/1 0/3 BCRL NA NA 0/1 NA N		7/2	BCKL Feb.	0/3	BCRL	≨	≨	₹	NA	
0/3 BCRL NA	0/3 BCRL 0/3 BCRL NA		6/0	BCKL	0/3	BCRL	ž	ž	: E	100	
NA N	NA N	/icne	0/3	BCRL	0/3	BCRL	ž	Ž	170	DCAL.	
AN A	N N N N N N N N N N N N N N N N N N N		0/3	BCRL	0/3	BCRL	Z	ž	01	BCRL.	
AN A	NA N	omrounds.								! ; }	
NA N	NA N	Related									
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			₹ ₹	\$ *	٤ź	≨ ≨	Ž :	≨ ;	Ź	≨	

NA = Not Analyzed

BCRL = Below Certified Reporting Limits

(mean) = Geometric Mean including value for BCRL data

\$\mu_8/l\$ = micrograms per liter

Contained Cont		Detections	of Range (geometric	Frequency of Detections	Well 33079 of Range (geometric ns mean) ug/l	Well Frequency of	Well 33506 7 of Renge (geometric	Well Frequency of	Well 33514
Decoplesylatestyle Name	Organoxulfur Compounds.						mean) µg/l	Detections	mean) µg/l
Description of the control of the	Herbicide Related								
Macophenylmethyl valories Macophenylmethyl valories Macophenylmethyl valories Macophenylmethyl valories Macophenylmethyl valories Macophenylmethyl valories Macophenylmethyl playbonste Macophenylmethylmethyl playbonste Macophenylmethyl	Chlorophenylmethyl sulfide	N	;						
Description of the property	Chlorophenylmethyl sulfone	\$ 2	≨ ;	≨	ž	NA.			
Stiffer Components March	Chlorophenylmethyl sulfasists	<u> </u>	≨.	≨	Ž	£ \$	≨ ;	≨	ž
Part	Privoline of the second	٤	₹	ž	Ź	£ ≨	≨ ;	≨	Ź
Part	Orranditoren Compound				•	Ę	≨	Ź	≨
No. No.	Caprolactem								•
A		2	≱	ž	*	. AM	į		
Abril Elaboration in Figure of manifested managements and possible in the first of manifested mani	Organophosphorous Community				•	٤	₹	Ź	×
No. No.	GB - Agent Related								1
We have been been been been been been been be	Disappopulmethal	;							
Old BCRL Old Old	Dimethylmethyl Agent	≨ ;	₹	₹	NA.				
Death of Properties of Prope	Carried internst prosphonate	₹	₹	₹	\$ <u>\$</u>	≨ ;	≨	≨	Ž
Old BCRL Old BCRL Old BCRL Old Old	£ 55	,			•	٤	≨	Ź	. ₹
11 12 12 12 12 13 14 15 15 15 15 15 15 15		0/2	BCRL	0/2	PCD1	:		•	Ş
Obtility Histograms NA NA <td></td> <td></td> <td></td> <td>!</td> <td>DCNE.</td> <td>1/1</td> <td>0.30 (0.30)</td> <td>0/12</td> <td>1000</td>				!	DCNE.	1/1	0.30 (0.30)	0/12	1000
	Emivolettie Halogenated						•	•	DCKL
Extraction of close statistics NA	Citable Compounds								
Station Restricted Name	Hexachlorocyclopentadiene	ž	MA	;					
Schooling Pesticides		•	٤	≨	≨	ž	MA	į	
March Marc	remochlorine Pesticides					•	5	£	Ź
Compering Limits	Aldrin	***							
No. No.	Dieldrin	E :	≨ ;	¥	ž	V.	;		
March Marc	DOE	≨ ;	≨.	ž	. ₹	5 3	≨ :	≨	X
March Marc	DOT	≨ ;	ž	Ź	\$	<u> </u>	≨	Ź	. ₹
Adding the contrict of contents of the form including value for BCRL data	Frutio	≨ :	≨	Ź	Ą	<u> </u>	≨.	≨	Ž
	Isodrin	≨	₹	₹	NA.	≨ ;	₹	ź	2
		₹	ž	ź	\$ *	\$ \$	Ž	≨	. *
March Marc					•	<u> </u>	≨	≨	Ž
1815 Lanium Comium Comium		≨	Ź	₹	ž	¥X.	;		:
tals NA N	Eleany	;			•	٤	£	≨	Ź
tals tomium NA N		≨	£	ž	£	2	\$	į	
tomium NA N	T. Metals					•	Ş	£	ž
romium NA N	Cachnium		•						
pper NA	Chromium	≨ :	≨ ;	≨	ž	Ą	V		
NA	Copper	Ž =	₹;	₹	₹	ž	٤ ۽	≨ ;	Ź
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= Not Analyzed	Zinc	\$:	≨	≨	Ž	Ž Z	\$:	≨	Ź
= Not Analyzed = Below Certified Reporting Limits = Geometric Mean including walue for BCRL data	,	≨	≨	¥	₹.	ź	≨ ;	≨	Ž
= Below Certified Reporting Limits = Geometric Mean including walue for BCRL data	Iŧ				:	٤	£	Ź	≨
Ħ	H	Limits							•
	Ħ	value for BCRL a	faia						

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	3582 Range (geomic.	mean) µg/l		7.7	≨ ;	≨:	≨ ∶	≨ :	≨	Ź	Ź	Ź	×	≨	¥		ž		ž	€ ≨			Y.	<u> </u>	≨ ;	€ :	≨.	Ź			ž	≱	
	Well 33582 Frequency of Rang	Detections		¥	<u> </u>	\$ \$	<u> </u>	X =	≨ ;	≨ :	≨	≨	ž	ž	≨	;	£		ž	ž			ž	4	£ \$	5 2	٤ :	£			≵	Ź	
0166.	Well 33581 of Range (geometric	mean) µg/l		₹	Ž	Ź	Ž	Ž		≨	≨ ;	≨ ;	Ž:	≨;	≨	ž	ξ		≱ :	ž			Ź	ž	. ≨	*	.	Ş			≨:	£	
dy Area. Page 63 of 66.	Well Prequency of			₹	Ź	ž	Ź	ž	Ž	2	∑	\$ 3	٤ :	Źź	٤	2	:		ź	₹		į	≨ ;	ž	Ź	≨		r)			Ž 2	Ş	
of the Western Stu	33580 Range (geometric mean) 112/1		;	≨ :	≨.	≨;	≨	ž	¥	ž	Ž	ź	Į V	₹ ≱	•	ž			Ž Ž	Ş		74	<u> </u>	≨ ;	≨ ;	≨	ž			;	≨		
confined Aquiter	Well 33580 Frequency of Range Detections m		ž	<u> </u>	E :	\$	≨ ;	≨ :	≨	≱	Ź	ž	ž	ž		Z			Ž Ž	•		N.	. 2	<u> </u>	٤ ۽	≨ ;	₹			*	₹.		
Results for the Un	33579 Range (geometric mean) µg/l		ž	. ₹	* * *	₹ ₹	2	\$ \$	٤ ;	≨ ;	≨ ∶	≨ ∶	≨	ž	į	£		774	₹ ₹			≨	ź	Z.	2	5 3	<u> </u>			¥	ž		
ndwater Analytical	Well 33579 Frequency of Range Detections me	ny de	ž	ž	ž	Ž	2	₹	¥Z	\$ 3	<u> </u>	\$	≨ ;	ž	4	ž		N.	\$			≨	≨	ž	≨	N N	•			₹	£		
Table WSA 2.4-1 Summary of Groundwater Analytical Results for the Uncontined Aquiter of the Western Study Area.		Volatile Halogenated Organic Communes	1,1 Dichloroethane	1.2 Dichloroethane	1.1 Dichloroethylene	1.2 Dichlorocthylene	1.1.1 Trichloroethane	1,1,2 Trichloroethane	Carbon tetrachloride	Chlorobenzene	Chloroform	Tetrachlorocthylene	orositas :	i remortem y lene	Chloriste		Volutile Hydrocarbons	Dicyclopentadiene	Methylisobutyl ketone	Volutile American	Zuranie zu ganne.	<u>؛</u>	Eurytoenzene	100	o and p-Xylene	41		Organosulfur Compounds.	Mustard Agent Related	uhiane	v		
Table W		Yolatik H	01:	7.7	- ·	1.2 D	1.1.1	1,1,2	Carbo	Chlor	Chlore	Tetrac	Teacht		Methylene Chloride		Voletile Hy	Dicych	Methyl	Volatile Am	Renzene	Estable	cuyio	m-Aylene	o find p	Toluene		Organosulfu	Mustard As	1,4 Oxathiane	Cichinae		

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µg/1 = micrograms per liter

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	i		1															
	3582	Kange (geomic. mean) µg/l	₹	\$ \$;	≨≨	0.20-0.40 (0.07)		ž		ž	4 :	₹ ≵	¥	ž	2	≨ ≨	\$ \$
	Well 33582	Detections	*	Ž Ž	M	\$ \$	2/8 0		¥		¥	4 2	. ≨	¥	\Z	ž	22 :	\$ \$
	Well 33581 of Range (geometric	- 1	\$ \$	₹.	\$	¥	0.26-0.42 (0.15)		ž		≨	₹ ≵	ž	\$	¥	Ž:	£ £ £	§ §
y Area. Page 64	Well Frequency of	Detections	\$ \$	ž	ž		3/6		≨	į	\$ \$.≱	ž	\$	ž	23	≨ ≨ ≨	¥
of the Western Stuc	Well 33580 of Range (geometric	mcem) µg/I	¥.	ž	¥	NA	0.21) 0.21)	ž	٤	* 2	₹.	Ž 2	<u> </u>	≨ ;	₹	\$ \$	\$ \$	ž
Pontined Aquifer	Well Frequency of		22 2	£	ŹŹ			Ž		ž	.₹	≨ ≵		£ 2	§.	Ž Ž	\$ \$:	£
Hesuhs for the U	Well 33579 of Range (geometric		22 2	į	\$ \$	0.36 (0.05)	•	ž		ž	Ž 2	₹	\$.	ļ	22	\$	<u> </u>
undwaler Ansiyiic	Well Frequency of Detections		₹ ₹		£ £	1/1		ž		Ž	\$ \$	¥	¥	ž		222	. ₹ ₹	1
1 abe Wood 2.4-1 Summary of Groundwater Analytical Results for the Uncontined Aquifer of the Western Study Area. Page 64 of 66.		Compounds	URING Kelated Chlorophenylmethyl sulfide Chlorophenylmethyl sulfone Chlorophenylmethyl sulfone Chlorophenylmethyl sulfoxide	Organophosphorous Compounds, CB.: Ascut Related	Disopropylmethyl phosphonate Dimethylmethyl phosphonate		<u>alogenated</u>	Hexachlorocyclopentadiene	Pesticides									
BOM WOA		Oxemosulfur Compounds.	III OCHOC KCIAICA Chlorophenyl Chlorophenyl Chlorophenyl	Organophosphorous GB. Ascut Related	Diisoprop Dimethyln	DBC	Semivolatile Halogenated Organic Commonde	Hexachlore	Organochloring Posticides	Aldrin Dieldrin	Endrin	Isodrin	Arsenic	Merchex	ICP Metals	Chromium Copper	Lead	

NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µg|l = micrograms per liter

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of 68.		
Page 65 c		
udy Area.		
Vestem St	34515 Range (geometric mean) µg/l	BCRL BCRL BCRL BCRL BCRL BCRL BCRL BCRL
er of the V	=	
onfirsed Aquif	We Frequency of Detections	0/3 0/3 0/3 0/3 0/3 0/3 0/3 0/3 0/3 0/3
Summary of Groundwater Analytical Results for the Unconfired Aquiter of the Western Study Area. Page 65 of 66.	34002 Range (geometric mean) µgA	BCRL BCRL BCRL BCRL BCRL BCRL BCRL BCRL
10r Analytical Re	Well 34002 Frequency of Range Detections m	0/3 0/3 0/3 0/3 0/4 0/4 0/4 0/4 0/4 0/4 0/4 0/4
ch Groundwater	¥ Q	
1 Summary		atcd Organic oethane oethylene oethylene oethylene oethylene oroethane oroethane oroethane thloroethane chloroethane chloroethane chloride ine thylene ylene of oethylene of oethylene of oethylene of oethylene oethyle
Teble WSA 2.4-1		Volatik Halogenated Organic Compounds 1,1 Dichloroethane 1,2 Dichloroethane 1,1 Dichloroethylene 1,1 Dichloroethylene 1,1 Trichloroethane 1,1,2 Trichloroethane 1,1,2 Trichloroethane Carbon tetrachloride Chlorobom T-1,2 Dichloroethylene Tetrachloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Wethylene Chloride Wethylene Chloride Wethylene Chloride Wethylisobutyl ketone Methylisobutyl ketone Methylisobutyl ketone Methylisobutyl ketone Methylisobutyl ketone Oganic Entylene Solatile Aromatic Organica Benzene Ethylenzene m-Xylene o and p-Xylene Toluene Organozulfur Compounds, Mysiard Agens Related 1,4 Oxathiane Dithiane

NA = Not Analyzed
BCRL = Below Certified Reporting Limits
(meun) = Geometric Mean including value for BCRL data
µg/l = micrograms per liter

	Well Frequency of Detections	Well 34002 of Range (geometric ns mean) µg/1	Well Frequency of Detections	Well 34515 for Range (geometric	
Oxeanosulfur Compounds. Herbickle Related				184 /	
Chlorophenyiniethyl sulfide Chlorophenylmethyl sulfine	0/4	BCRL	0/1	i a	
Chlorophenylmethyl sulfoxide	0/4	3.8 (0.95) BCRL	0/1	BORL BORL BORL	
Orrenoninoren Compound					
Caprolactan	ž	¥	ž	ž	
Orsanophosphorous Compounds, GB - Arent Related					
Dissopropylmethyl phosphonate Dimethylmethyl phosphonate	0/4	BCRL BCRL	2/0	BCRL	
DBC	0/4	BCRL	2/0	BCRL	
Semirolatile Halogenated Organic Compounds					
Hexachlorocyclopentadiene	6/0	BCRL	6/3	BC8.	
Orramochlorine Pesticides					
Aldrin	0/4	i a.Ja	!		
Dieldrin	0/4	BCRL	6/3	BCRL	
200	0/3	BCRL	0/3	BCRI.	
Endrin	6/3	BCRL	0/5	BCRL	
Isodrin	0/4	BCRL	5,3 5,7	BCRL BCRL	
Алзепіє	0/4	BCRL	6/3	BCRL	
Mercury	6/0	BCRL	0/1	BCRL	
ICP Metals					
Chroming	0/4	BCRL	6/3		
Copper			1/3	21 (7.1)	
Lead	0/4		2	17 (5.6)	
Q	4/4	22-130 (37)	22	20 (6.8)	
				(70)	
DCAL = Below Certified Reporting Limits (mean) = Geometric Mean including value for RCRI dota	Limits value for RCRL	200			
118/1 = micrograms per liter	, and				

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I able WSA 2.4-1 Summary of Groundwater Analytical Results for the Unconlined Aquifer of the Western Study Area. Page 66 of 66.

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I sole WSA 2.4-2 Summary of Groundwater Analytical Results for the Confined Denver Formation Aquifer of the Western Study Area. Page 1 of 8.

	Frequency of Detections	weii 03003 / of Range (mean) ns µg/f	Well (Frequency of Detections	Well 03004 / of Range (mean) ns un/	Well 03006 Frequency of Ra	\ \c	Well 03007 Frequency of Rar	007 Range (mean)
Volatile Halogenated Organics					Silverionis	ਮੂਰੂਸ ਹਵਾਲੇ	Detections	μđη
1.1 Dichlorocthane	2	į						
1.2 Dichlomethane	50	BCRL	C/0	BCRL	20	I a C a	į	
1.1 Dichlymethylens	Ch d	BCRL	2	0.01 (0.10)	2 2	3 2 2	₹ •	BCRL
1.1.1 Trichloroethane	S S	BCRL	6/3	BCRL	20		Z (BCRL
1,1,2 Trichloroethane	SS	BCRL	Ş	BCRL	020	ICE I	5 8	BCRL
Carbon tetrachloride	5 5	BCRL POR:	S	BCRL	072	a a b	5 8	BCRL
Chlorobenzene	38	ECR.	S	BCRL	0/2	BCRL	3	
Chloroform	S	BCBI	<u> </u>	BCRL	2/0	BCRL	38	ב ב ב
Tetrachloroeúnylene	S	BCRL	5 5	4.6 (1.5)	20	BCRL	5	
Inchleroethylene	6/3	BCRL	S		22	BCRL	0	BCRL
Methylene Ollowide	5	,	•		710	PC KL	5	BCGL
	c/n	BCRL	83	BCRL	02	BCD1	Š	
Volatile Hydrocarbons					!		ī/o	BORL
Dicyclopentadiene	5	Ja.	1					
Methylisobutyl Ketone	88	BCRL	88	BCRL	0/2	BCRL	1/0	BCRI
Volatile Americain Paris			5	DCNE	7/0	BCRL	<u>ئ</u>	BCRL
P. C.								
Ethylbenzene	2,5	8.2 (2.7)	620	BCRL	8	i d	į	
m-Xykae	8	BCRL	S	BCRL	0,7	BCR!	55	BCRL
o and p-Xylene	3 5	BCRL	S :	BCRL	0/2	BCRL	.	
Tolume	50	BCRL	<u> </u>	BCRL BCR	20	BCRL	1/0	
				BCKL	0/2	BCRL	٥/1	BCRL
Mustand-Agent Relaced								
1,4 Oxathiane	20	300	;					
Dithiane	S 60	BCRI.	\$8	BCR.	700	BCRL	1/0	BCR1
)	Ch	BCKL	0/2	BCRL	٥/1	BCRL

BCRL = Below Certified Reporting Limits (mean) = Geometric Mean including value for BCRL data µg/l = micrograms per liter

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Wall and A	MoM	Well posses		lion Aquiter of the	Western Study An	ea. Page 2 of 8.			
	Frequency of Detections	Range (mean) μg/l	Well (Frequency cl Detections	Well 03004 / cf Flange (mean) ns μg/1	Well 03006 Frequency of Ra Detactions	8	18-	, x	
Organosulfur Compounds, Herbisiske Related						none.	Defections	hgu	
Chlorophenylmethyl sulfide	2/0	BCRL	80	ומטמ	1				
Chloropheny intenty sufforce	\$ \$	BCRL	55	BCRL	5 6 6	BCRL	1/0	BCRL	
Berezolniazole	0/1	BCRL	S	BCRL 2.3(2.3)	. 20 5	ECE!	56	E E	
Organisations Compounds.				•	5	BCKL	¥2	¥	
Diisopropyimethyl phosphonate Dimethylmethyl phosphonate	6/0 6/0	BCRL	6,0	BCRL	82	PCDI	į	!	
Dibronochionoryane	<u>.</u>	TO THE TOTAL PROPERTY.	5 6	BCRL	20	BCRL	55	B B B	
	6/0	BCRL	6/3	BCRL	8	1479	:		
Senivolaile Halogenzied Organic Compounds				•	}	P.K.	5	BCRL	•
Hetachlorocyclopentatione	6/3	BCRL	6/3	BCRI	Ş	į			
Organos bloring Pesiki ikes)	760	ECR.	Q/1	BCRL	
Ashin Dickin	\$ 8	BCRL	6/0	BCRL	2	į	į		
Endrin	£2:	0.058(0.019)	SS	BCRL	20	BCR!	58	BCRL	
DDT	603	BCRL	S S S	BCRL BCRL BCPL	200 200 200 200 200 200 200 200 200 200	BCRL	353		
Arsanic	1/3	7.2 (2.4)	. ZI	2 14 0	7 S	BCRL	0/1	BCRL	
Mercury	1/3	0.25 (0.084)	. 5	(0.7)	7/1	7.2 (3.6)	1/1	9.2 (9.2)	
ICP Metals			7/0	BCKL	8	BCRL	0/1	BCRL	•
Cadmium	23	BCBI	Ş	j					
Chromium	12	21 (6.9)	700		25	BCRL	170	BCBL	
Led	25	25 (8.4)	0/2	BCRL	2.5	6.9 (3.5)	1 /2	BCRL	
Zinc	2% E/1	BCKL 100 (35)	072	BCRL 30 52 (45)	27	28 (14)	S S		
11	imits		i T	(C+) 7C-4C	77	82 (41)	1/1	32 (32)	
(mean) = Deometric Mean including value for BCRL data	alue for BCRL day	*							

Hg/l = micrograms per liter
WSA 2.4-2NVSA-1
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Table WSA 2.4-2 Summary of Groundwater Analytical Results for the Confined Denver Formation Aquifer of the Western Study Area, Page 3 of 8,

Frequency of Detections of O/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0/2 0		Moho	9777						
### Compounds 0.2 BCRL		Frequency of Detections		Well Frequency of Detections	04009 Range (mean) µg/l	Well 0. Frequency of Detections	4011 Range (mean)	122	003 Range (mean)
072 BCRL DCRL DCRL DCA DCA DCA DCA DCA DCA DCA DCA DCA DCA	Volatile Halogenated Organic Compounds							I	hg _M
10	Dichlorocthane		I a Ju	ţ					
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Dichloroethane	: 8	DCAL PCBI	s/i:	BCRL	0/4	BCRL	Š	
Color	Dichloroethylene	1 2	DCRL POR:	1/3	3.9 (1.3)	0/4	ומטא	3 3	2
## Comparison of the control of the	1 Trichlomethane	7/0	BCKL	0/2	BCRL	5	PCP1	0/4	BCRL
0.2 BCRL 0/3 BCRL 0/4	2 Trichlomethane	7/0	BCRL	6/3	BCRL	0,4	To Ta	S	BCRL
902 BCRL 903 BCRL 904 BCRL 902 BCRL 903 904 BCRL 903 BCRL	bon terretheide	7/0	BCRL	27	2.5 (0.84)	0,4		0/4	BCRL
0.2 BCRL 0.3 BCRL 0.4 BCRL 0.2	orobenzene	7/0	BCRL	62	BCRL	0 0		0/4 5::	BCRL
0.2 BCRL 0.3 BCRL 1/4 6.2 (1.5) 0.44 0.2 BCRL 0.3 BCRL 0.44 BCRL 0.44 0.2 BCRL 0.3 BCRL 0.44 BCRL 0.44 0.2 BCRL 0.2 BCRL 0.42 BCRL 0.44 0.2 BCRL 0.2 BCRL 0.2 BCRL 0.2 0.2 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0.44 0.2 BCRL 1/3 3.1 (1.0) 1/4 BCRL 0.2 0.2 BCRL 1/3 1.1 (1.0) 1/4 BCRL 0.44 0.2 BCRL 1.2 1.3 1.1 (1.0) 0.44 BCRL 0.44 0.2 BCRL 1.3 1.3 1.3 1.3 1.3 1.4 BCRL 0.44 0.2 BCRL 0.2 BCRL 0.2 BCRL 0.44 0.2 BCRL 0.2 BCRL 0.44 BCRL 0.44 0.2 BCRL 0.2 BCRL 0.44 BCRL 0.44 0.2 BCRL 0.2 BCRL 0.44 BCRL 0.44 0.4	шојоло	7/0	BCRL	6/3	BCRL	0/4	a Para	6 /4	BORL
%2 BCRL 0/4 BCRL 0/4 BCRL 0/4 0/2 BCRL 0/3 BCRL 0/4 BCRL 0/4 0/2 BCRL 1/3 21 (6.9) 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 3 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0/4 0/2 BCRL 3/3 14-28 (20) 0/4 BCRL 0/4 0/2 BCRL 3/3 11-2.5 (20.1) 0/4 BCRL 0/4 0/2 BCRL 3/3 1.9-5.2 (3.1) 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/4 BCRL 0/4 0/2 BCRL 0/4 BCRL 0/4 0/4 0/4 0/2 BCRL 0/2 0/4 BCRL 0/4 0/	achloroethylene	7 6	BCKL BCRL	503	BCRL	1/4	62015	4 5	BCRL
0,2 BCRL 1/3 21 (6.9) 0/4 BCRL 0/4 6 0,2 BCRL 0/2 BCRL 0/2 BCRL 0/2 8 0,2 BCRL 0/2 BCRL 0/2 BCRL 0/2 9 0,2 BCRL 0/2 BCRL 0/2 BCRL 0/2 9 0,4 BCRL 0/2 9 0,4 BCRL 0/4 9 0,2 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0/4 9 0,2 BCRL 2/2 45.100 (83) 0/4 BCRL 0/4 9 0,2 BCRL 3/3 5.110 (79) 0/4 BCRL 0/4 9 0,2 BCRL 0/2 BCRL 0/4 9 0,2 BCRL 0/2 BCRL 0/4 9 0,4	hlorocthylene	7.70	ECR.	\$ 5	BCRL	0/4	BCRL	7 7 7	
0,2 BCRL 1/3 21 (6.9) 0/4 BCRL 0/4 e 0,2 BCRL 0,2 BCRL 0,2 BCRL 0,2 0,2 BCRL 0,2 BCRL 0,2 BCRL 0,2 0,2 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0/4 0,2 BCRL 3/3 14-28 (20) 0/4 BCRL 0/4 0,2 BCRL 2/2 45-100 (89) 0/4 BCRL 0/4 0,2 BCRL 3/3 19-5.2 (3.1) 0/4 BCRL 0/4 0,2 BCRL 0/2 BCRL 0/2 BCRL 0/4 0,2 BCRL 0/2 BCRL 0/2 BCR				1	PCKL	0/4	BCRL	\$	BCRL
9/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 CO	K. S. III. R. K.	0/2	BCRL	1/3	21 (6.9)	0/4	i de Ja	į	
6 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 33 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0/4 0/2 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0/4 0/2 BCRL 3/3 14-28 (20) 0/4 BCRL 0/4 0/2 BCRL 3/3 53-110 (79) 0/4 BCRL 0/4 0/2 BCRL 3/3 1.9-5.2 (3.1) 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2	Hydrocarbons				•	•	To the second	\$	BCRL
BCRL 0/2 BCRL 0/4 BCR	clopentadione	2	1000	1					
92 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0/4 BCRL 0/2 BCRL 0/2 BCRL 0/4	hyliscbutyl ketone	25 62 62	BCRL	22	BCRL	25	BCRL	0/2	
9/2 BCRL 1/3 3.1 (1.0) 1/4 4.8 (1.2) 0/4 BCRL 0/2 BCRL 2/2 45-100 (68) 0/4 BCRL 0/2	Ammatic Organica			1	DCAL	7/n	BCRL	0/2	BCRL
072 BCRL BCRL 0/2 1/3 3/3 3.1 (1.0) 14-28 (20) 1/4 0/4 4.8 (1.2) BCRL 0/4 0/4 BCRL 0/4 4.8 (1.2) 0/4 0/4 BCRL 0/4 4.8 (1.2) 0/4 0/4 BCRL 0/4 4.8 (1.2) 0/4 0/4 BCRL 0/4 BCRL 0/4 0/4 BCRL 0/4 BCRL 0/4 0/4 BCRL 0/4 BCRL 0/4 0/4 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2	Complete Advantes								
0/2 BCRL 3/3 14-28 (20) 1/4 4.8 (1.2) 0/4 0/2 BCRL 2/2 45-100 (63) 0/4 BCRL 0/4 0/2 BCRL 3/3 53-110 (79) 0/4 BCRL 0/4 0/2 BCRL 3/3 1.9-5.2 (3.1) 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2	:: c:	25	BCRL	2	217.0				
0/2 BCRL 2/2 45-100 (68) 0/4 BCRL 0/4 0/2 BCRL 3/3 53-110 (79) 0/4 BCRL 0/4 0/2 BCRL 3/3 1.9-5.2 (3.1) 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2	Denzene	20	BCRL	£	14.70 (7.0)	4 : C	4.8 (1.2)	0/4	
0/2 BCRL 3/3 3/3 3/3 3/3 6/4 BCRL 0/4 0/2 BCRL 3/3 1.9-5.2 (3.1) 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2	ykne	0/2	BCRI	32	(07) 07-41	\$	BCRL	0/4	NCB.
0/2 BCRL 3/3 1.9-5.2 (3.1) 0/4 BCRL 0/4 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 0/2 BCRL 0/2	l p-Xylone	072	n a	1 5	43-100 (06)	5 /2	BCRL	0/4	٥
0/2 BCRL 0/2	ne ne	0/2	ECRL BCRL	۲ ۲	53-110(79)	0/4	BCRL	, *	BCRI.
0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2			}	C)	(1.6) 7.6-6.1	0/4	BCRL	0/4	BCRL
0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2	Hur Compounds.								}
hiane 0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 CRL 0/2 C	Agent Related								
0/2 BCRL 0/2 BCRL 0/2 BCRL 0/2 CRL 0/2	xathiane	2/0	BCRL	2	ָרָבָּיבָה בייניים	1			
DOWN BUILD 0/2	ne	0/2	BCRL	270	BCR.	7 6		62	BCRL
				•		7	BCK!	\$	BCRL

BCRL = Below Certified Reporting Limits (mean) = Geometric Mean including value for BCRL data $\mu g/l = micrograms per liter$

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	Frequency of Detections	/ of Range (mean)	Well (Frequency of Detections	Well 04009 Y of Range (mean) ns uc//	Well 04011 Frequency of Ra	ξ,	Well o	Well 09003 ICy of Range (mean)
Organosulfur Compounds,						à	Detections	rov rov
Herberke Related								
Chlorophenylmethyl sulfide	072	I G.J B	\$					
Chlorophenylimethyl sulfone	20	BCb1	7/0	BCRL	26	BCRI	Ş	į
Chlorophenylmethyl suffoxide	20	BCP.	70	BCRL	2/0	BCR1.	35	BCRL F
Benzolliazole	0/1	BCRL	0/2 1/1	BCRL 1.5(1.5)	Z :	BCRL	7.25	
Organization of the Conservation				(0)	,	BCKL	0/1	BCRL
GB - Agent Related								
Disorgonula de la	1							
Dimethylmethyl phosphonate	0 0 0 0 0	BCRL BCRL	28	BCRL	5/0	BCRL	S	i de
•			7/0	BCKL	S	BCRL	3	
LINCONCORONOPOR	0/2	BCRL	6/0	BCRL	7/0	, G	5	
Sanivolatile Halogenated				†	5	BCKL	0/4	BCRL
Organic Compounds								
Hexachlorocyclopentadiene	1/0	i	!					
	5	BCKL	0/2	BCRL	0/4	BCRL	Ş	i d
Markon Marine Perincides							5	DC-AL
Aiden	172	0.15 (0.073)	S	10.78	č	i		
Driver and	02	BCRL		0.0K4.0.14.00.0K4)	5	BCRL	9/4	BCRI
Lakuli	0/2	BCRL		PC91	4/4	0.073 (0.018)	0/4	BCRL
DOT	200	BCRL	50	BCRL	7 7	BCRL PCRL	0,4	BCRL
•	7/0	BCRL	1/3	0.19 (0.064)	4 4		8	BCRL
Arsenic	50	Ja.Ju	8				4/1	6.46 (0.11)
	<u>.</u>	DCNE	7/17	15-22 (18)	3/4	12 - 15 (9.9)	٤	1470
Мексих	0/1	BCRL	0/1	BCB1	Ş		5	DCKL
ICP Metats					7/0	ECK!	0/1	BCRL
Cadmium	50							
Chomium	5	BCRL	0,72	BCRL	0/4	n/m	5	i
Copper	7 5	BCKL POR	0/2	BCRL	0/4	i a Ca		BCRL
Lead	1 6	שלאקן מלא	27	13(6.5)	1/4	83.0.1	52	51 (17)
Zinc		DCR.	7/0	BCRL	0/4	HCRI.		(8.8)
		DCKL	1/2	30(15)	1/4	32 (8.1)		
DCAL = Below Certified Reporting Limits (mean) = Geometric Managed	imits						3	((1) (7 - 77
	itue for BCRL dau	-						

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	SO IIOM	03004	110M	Well nemne				
	Frequency of Detections	Range (mean) µg/l	Frequency of Detections	Range (mean)	Well: Frequency of Detections	Well 33026 of Range (mean)	Well Frequency of	Well 33027 of Pange (mean)
Yolztik Halogensied Organic Compounds						-Ai	Detections	r o d
1 Dichlomethans								
1. Dichlosouhan	1/0	BCRL	20	BCRL	20	בת ביים ביים	1	
	0/1	BCRL	00	nCD1	2 6	מראל ו	72	BCRL CRL
1,1 Dichloroethylene	<u>۱</u> ⁄۵	BCRL	2		S/0	BCRL	20	BCR!
1,1,1 Trichloroethane	1/0	BCD!	7 5	BCKL FORT	20	BCRL	5	a de la companya de l
1,1,2 Trichloroethane	. 70	ייסיי	7/0	BCRL	S	BCRI.	2	
Carbon tetrachlonde	5 8	שכים מכים	7/0	BCRL	50	BCRI	18	
Chlambenzeue		BCKL	0/2	BCRL	0/4	BCP I	7/0	
Chlorofoan	7.5	BCRL	20	BCRL	0/4	BCBI	5/0	BCK
Temphonenhylene	7.0	BCRL	2/0	BCRL	0/4	a Car	5/0	BCRL
Trichbacethylene	7 2	BCRL	0/2	BCRL	04	PCP!	5/0	BCRL FOR:
~ (140	BCKL	0/2	BCRL	0/4	BCRL	\$ 5	
Methylene Chloride	2	1000	1				S	DCK!
	160	DCKL	0/2	BCRL	6/3	BCRL	2	rava
Yolatile Hydrocarbons							1	
Dicyclosentalicae	5	140	1					
Methylisobutyl ketone	3 8	BCRL PCRL	25	BCRL	20	BCRL	5	1474
	5	BCRL	0/2	BCRL	1/0	BCRL	- V	BCK.
Yolatik Aromatic Organics						!	•	
Bowene	70	זמיטר	(
Ethylbenzene	5 8		700	BCRL	0/4	BCRL	2	24 (0 em
m-Xylene	5	BCRL BCPI	70	BCRL	83	BCRL	33	(0.00) B(20)
o and p-Xykare	.	DCRL.	7/0	BCRL	0/4	BCRI	3 5	
Toluche	5	BCRL	20;	BCRL	0/4	BCRL	3 5	
		BCKL	0/2	BCRL	9/4	BCR.	3 2	
Organosulfur Commoninate						}	C/O	
Mustand-Agent Related								
1.4 Oxathiane	2	. 45.4	į					
Dithiase	55	J. F.	020	BCRL	20	BCRL	2	la Ca
		DCRE	7/0	BCRL	20	BCRL	5	
							•	7

NA = Not Analyzed

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data

µg/l = micrograms per liter

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	Well Frequency of Detections	Well 09004 / of Range (mean) ns µg/l	Well: Frequency of	Well 28028 Y of Range (mean)	Well 33028 Frequency of Ra	3026 Range (mean)	Well 33027	7227
Organism Comment.				ngu T	Defections	ран	Detections	Hänge (mean) un/
Herbicke Relaca								
Chlorophenylmethyl sulfide	0/1	laVa	1					
Chlorophenylmethyl sulfone	1/0	BCRI.	220	BCRL	0/2	BCRL	5	
Frenching inchised suffering	0/1	BCRL	700	BCRL PCP:	20	BCRL	5	BCRL
	N A	NA A	1/0	BCRL	Ç: 5	BCRL	1/0	BCRL BCRL
Organization harous Compounds.				!	16	BCRL	¥	NA NA
GB - Agent Related								
Diisopropylmethyl phosnhouse	Š							
Dimethylmethyl phosphenate	7/0		88	BCRL	6/3	BCRI	Ş	i
Diberra att	•		7/0	BCRL	Ş	BCRL	7 6	BCRL
AUGUSTANIA DESTUNDAME	0/1	BCRL	8	pCol	;		7/0	BCRL
Semivolatile Halozanas			1	DCAL	0/4	BCRL	8	la Ca
Organic Communication							ì	
Herzehlerrechennen	:							
	I/0	BCRL	8	RCP.	5	i		
Organochkeine Pesticides					6	BCRL	25	BCRL
Aldrin	1/0							
Dieldrin	5	BCKL BCB1	200	BCRL	0/4	I GOR	1	
Erkin	0/1	BCAL RCPI	25	BCRL	0/4	R. R.	52	BCRL
Leodin	0/1	BCRI	7/0	BCRL	0/4	BCRL	55	BGR.
100	0/1	BCRL	7.0	ECKL PCR	₹2	0.35 (0.088)	SS	ECK.
Arsenic	;		1		6/3	BCRL	70	
	5	4.6 (4.6)	0/1	BCRL	0/4	. 60) }
Mercury	0/1	RCR!	Š		5	BCKL	88	BCRL
ICP Mersie			100	BCKL BCKL	6	BCRL	ž	
Color							•	
Croming	0/1	BCRL	5	a de	;			
Corner	1/0	BCRL		ECEL FOR	\$\f^{0}_{2}	BCRL	\$	ia Je
leal	1/0	BCRL	0/1	E E	\$ 2	BCRL	5/2	
Zig	i (6)	BCRL	0/1	ACE!	* 5	BCRL	62	200
	(%)	BCRL	0/0	BCRL	† */ c	BCRL	173	30 (9.8)
					1	(91) 57 - 42		24 - 78 (29)
B	imits							
(mean) = Geometric Mean including value for BCRL data	alue for BCRL data							
,								

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Table WSA 2.4-2 Summary of Groundwater Analytical Results for the Confined Denver Formation Aquifer of the Western Study Area. Page 7 of 8.

	Mell	Well 33032	1744				
	Frequency of Defections	Range (mean) µg/l	Frequency of Uetections	well 33034 of Range (mean)	Frequency of	Well 34003 of Range (mean)	
Velatile Halogenated Organic Compounds					Delections	y o n	
1,1 Dichloroethane		BCRL	5	1000	;		
1.1 Dichkoothules	0/4	BCRL	<u>S</u>	BCRL RCR1	7.0	BCRL	
1.1.1 Trichlemenhane	500	BCRL	0/2	BCRL		BCRL	
1,1,2 Trichloroethane	* * * * * * * * * * * * * * * * * * *	BCRL	50	BCRL	50	ביים היים היים היים היים היים היים היים ה	
Carbon tetrachloride	0/4	BCRL	50	BCRL	0/1	BCR.	
Chlorobenzene	0/4	BCRL	S 5	BCRL	1/0	BCRL	
Terschlore	0/4	BCRL	50	BCRL	58	BCRL	
Trichloroethylene	\$ \$	BCRL BCRL	50 50 50	BCRL	50.5	BCRL	
Methykene Chloride	0/4	BCBI	5	TO S	1/0	BCRL	
Voletile Understand		<u> </u>	Ç.	BCKL	0/1	BCRL	
District of the second	;						
Methylisoburyl ketone	22	BCKL	2/0	BCRL	20	BCRL	
	<u> </u>		1 0	BCRL	٥/١	BCRL	
Yolatile Aromatic Organics							
Beneare Ethylbenzene	2/4	1.9-3.8 (1.3)	1/3	3.01 (1.00)	,		
m-Xykne	0, 4 <u>4</u>	BCRL	5	BCRL	70	BCR.	
o and p-Xylene	0/4	BCRL BCRL	S 2	BCRL	1/0	BCRL	
1 Otheric	0/4	BCRL	£6	BCRL	56	BCRL	
Organosuifur Compounds.						ECK	
Missiant-Agent Relaced							
1,4 Oxathiane Diffiane	0,0	BCRL	0/1	BCRL	2		
	0/2	BCRL	1/0	BCRL	70		
						1	

BCRL = Below Certified Reporting Limits
(mean) = Geometric Mean including value for BCRL data
µg/l = micrograms per liter

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Table WSA 2. 4-2 Summary of Groundwater Analytical Results for the Conlined Denver Formation Aquifer of the Western Study Area. Page 8 of 8.

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	Well Frequency of Detections	Well 33032 y of Range (mean) ins µg//	Well S Frequency of Detections	Well 33034 V of Range (mean)	Well 34003 Frequency of Ra	too3 Range (mean)	
Organogulfur Compounds				тди	Detections	Убп	
Herbicite Related							
Chlorochenylmethyl sulfide	00	I G.D.I	i				
Chlorypiscayimethyl sulfore	0.0	BCRL	58	BCRL	2/0	BCRL	
Chlorophenylmethyl sulfoxide	0/2	BCRL	S	BCRL PCB:	55	BCRL	
Delicon indicase	0/1	BCRL	66	BCR.	\$5	BCRL	
Organischosphorous Compounds.				!	16	BCKL	
GB - Agent Related							
Diesopropylmethyl phosphonate	0/2	ומטע	,				
Dimethylmethyl phosphonate	0.0	BCRL	58	BCRL	0/2	BCRL	
Dibomorklomen			• •	BCKL	20	BCRL	
A CONTROLL OF THE PARTY OF THE	0/4	BCRL	0/4	RCal	Ş		
Semivolatile Haloacand					7/0	BCRL	
Organic Compounds							
Herzelschronnen in der	:						
icomorphic de l'establique	0/4	BCRL	620	RCB1	**		
Oxeanochlorine Pesticides					3	BCRL	
Aldrin	7,0						
Dickfrin		BCRL PCR:	£6	BCRL	20	1000	
Endrin		שלאל מלאל	50	BCRL	3		
Isotin		DOK3 (0.016)	50.	BCRL	20		
Jour	0/4	BCRL	\$\$	0.11 (0.038) BCB1	02	BCRL	
Arsenie	7/ 6		;	TO THE PERSON NAMED IN COLUMN			
	7/3	5.0 (1.2)	63	BCRL	8	1000	
Mercury	5	BCRL	5	i di	;		
IC's Metals		ı	<u>.</u>	BURL	S	BCRL	
STATE OF THE PARTY							
	0,4	BCKL	22	I a.J.	5		
	6 ∕4	HCRL	5		75	BCRL	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8.3 - 22 (6.8)	3	J. J	\$8	H.	
Zinc	0 2 8	BCRL 17 - 66 (73)	60	BCRL	7 C	BCR.	
ACRI To Below Courses In .		(C7) co . 70	U/3	BCRL	2/3	BCRL	
	, i.a.i.e.					1	

BCRL (mean)

Below Certified Reporting Limits
 Geometric Meun including value for BCRL data
 micrograms per liter

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04021 Range (mean)	l/gμ		4.0			8	
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A009 Range (mean)	è			16 36-76 (52)	2100		16-34 (23)
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		Yolstile Halogenated Organics 1,1,2,2 Tetrachloroethane	Volatile Aromatic Organics	Ethylbenzene Xylene	Organistrogen Compounds Caprolactam	Polymerical Aromatic Hydrocarbons	and a reputation

ND == Not Detected (mean) == geometric mean including value for BCRL data µg/l == micrograms per liter

WSA 2.4-3/WSA-1 Rov. 4/20/89

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MO27 Range (mean)	μg/I				ç	0/0	
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		Vulgille Halogenaice Organics 1,1,2,2 Tetrachloroethane	Veletile Aromatic Organics	Ethylosnzene Xylene	Organosingen Compounds Capelacian	Retracted Aromate Hydrocators	Methyl nepthalene

ND = Not Detected
mean including value for BCRL data

481 = micrograms per liter (mean)

WSA 2.4-2/WSA-1 Rov. 4/20/89

Table WSA 2.5-1 Contamination Classification of Western Study Area Structures. Page 1 of 5.

Structure Number	Section	Structure Function	Year Built	Contamination Classification
141	4	West Gate security building	1942	3
143	4	West Gate guard house	1942 (new o 1962)	3 ne built
149	4	Engineering/security	1949 (moved	3 to RMA)
150	34	Tennis courts	1951	3
151	34	Barracks	1942	3
154	34	Barracks-foundation	1942	3
155	34	Barracks/classroom-foundation	1942	3
158	34	Officers/NCO Club-foundation	1942	3
162	34	NCO/family housing-foundation	1942	3
164	34	Barracks/family housing-foundation	1942	3
167	34	Recreation/supply room/library/ hobby shop	1942	3
169B	34	Gas station house-foundation	1942	3
176	3	Garage and apartments-foundation	Pre-RM	A 3
379	3	Chlorinating Station	1942	2
382	3	Chlorinating Station	1942	2
385	4	Process water pump house	1954	2
386	4	Process water pump house	1954	2
387	4	Process water pump house	1956	2

^{*1 =} Suspected to be contaminated

^{2 =} Suspected to be contaminated but cleanable

^{3 =} Uncontaminated

Table WSA 2.5-1 Contamination Classification of Western Study Area Structures. Page 2 of 5.

Structure Number	Section	Structure Function	Year Built	Contamination Classification*
393	34	Sewage lift station	1942	2
394	33	West Gate septic tank	1942	2
605	3	Flammable materials storage	1957	2
606	3	Flammable materials storage	1957	2
607	3	Flammable materials storage	1957	2
608	3	Flammable materials storage	1957	2
611	4	Depot office/data processing	1942	3
612	4	Depot infirmary/office	1942	3
613	4	Fire station/office	1942	3 .
614	3	Warehouse	1942	2
615	3	Warehouse	1942	2
616	3	Warehouse	1942	2
617	3	Warehouse	1942	2
618	3	Offices and warehouse	1942	2
619	3	Warehouse	1942	2
621	4	Offices/salvage office	1942	2
621A	4	Truck scale platform	1957	2
522	4	Paint shop/storage	1942	2
523	4	Carpenter shop/hobby shop auto repair garage	1942	2
524	. 4	Fifth Echelon vehicle repair/ storage	1942	2

^{*1 =} Suspected to be contaminated

^{2 =} Suspected to be contaminated but cleanable

^{3 =} Uncontaminated

Table WSA 2.5-1 Contamination Classification of Western Study Area Structures. Page 3 of 5.

Structure Number	Section	Structure Function	Year Built	Contamination Classification*
625	4	Warehouse	1942	2
626	4	Machine/welding shop-foundation	1942	2
626C	4	Heavy equipment shop-foundation	1947	2
627	4	Vehicle maintenance shop	1942	2
627B	4	Flammable materials/pesticide storage	1948	2
628A	4	Diesel/waste oil tank	1942	1
629	4	Motor pool service station	1943	2
629A-C	4	Diesel oil/gasoline tank	1942	1
619-D	4	Diesel oil tank	1942	1 .
629-E	4	Service station shelter	1942	2
630	3	Gas meter house	1953	2
631	4	Railcar maintenance/roundhouse	1942	2
631A	4	Flammable materials storage	1952	2
632	4	Heating plant	1942	2
633	4	Cafeteria/agricultural research laboratory/storage	1942	2
633A	4	Cafeteria storage/laboratory/ lunchroom/storage	1942	2
633B	4	Plant pathology laboratory/ greenhouse/hazardous materials storage	1948-195	1 2
634	4	Flammable materials storage	1942	2
635	3	Locker room/office	1942	3

^{*1 =} Suspected to be contaminated

^{2 -} Suspected to be contaminated but cleanable

^{3 =} Uncontaminated

Table WSA 2.5-1 Contamination Classification of Western Study Area Structures. Page 4 of 5.

Structure Number	Section	Structure Function	Year Built	Contamination Classification*
639	4	Lumber storage/carpenter shop	1952	2
641	3	Warehouse-foundation	1942	2
643	3	Magazine/flammable materials storage	1942	2
644	3	Quarters-foundation	Pre-RMA	3
644A	3	Garage/storage-foundation	Pre-RMA	3
646	4	Pesticide storage and mixing for rodent control-foundation	1951	2
647A	4	Motor pool dispatch office	1942	3
647B	4	Motor pool vehicle shelter	1942	. 2
547C	4	Motor pool vehicle shelter	1942	2
547D	4	Motor pool vehicle shelter	1942	2
548	4	Road oil pump and boiler house	1942	2
548A	4	Road oil tank	1942	1
548B	4	Road oil tank	1942	1
573	3	Railroad scale house/storage	1949	2
80	9	Communication building-foundation	c.1958	3
84	3	Guard house-foundation	1943	3
85	3	Guard house-foundation	1943	3
88	3	Guard house-foundation	1943	3
09	33	Irondale groundwater treatment facility	**	1
N0301	3	Metal Shed-N of 618	ĦŔ	2

^{*1 =} Suspected to be contaminated

^{2 =} Suspected to be contaminated but cleanable

^{3 =} Uncontaminated

^{** *} Date of construction not located

Table WSA 2.5-1 Contamination Classification of Western Study Area Structures. Page 5 of 5.

Structure Number	Section	Structure Function	Year Built	Contamination Classification*
NN0302	3	Metal Shed-N of 619	**	2
NN0303	3	Metal Shed-N of 619	**	2
NN0304	. 3	Metal Shed-N of 619	*¢	2
NN0901	9	Concrete structure-1300' SE of 6th & A streets	**	3
NN0902	9	Survey Tower-N of Post Office facility	**	3
NN0903	9	VORTAC station	中市	3
NN28	28	Two groundwater treatment wells- Irondale facility	**	1
NN33	33	45 groundwater treatment wells- Irondale facility	**	1
PRO4	4	Pipe runs in Section 4	**	1

^{*1 =} Suspected to be contaminated

^{2 =} Suspected to be contaminated but cleanable

^{3 =} Uncontaminated

^{** =} Date of construction not located

Table WSA 2.6-1 Airborne Contaminant Distribution. Page 1 of 1.

PARAMETER	AQ1, West Boundary	AQ7, East of Railyard
Total Suspended Particulates (TSP)		
No. of Sampling Events Annual Geometric Average (ug/m ³) Range of Individual 24 Hr Samples (ug/m ³)	60 47 7.1–140	55 33 6.2–100
Asbestos		
No. of Sampling Events Annual Geometric Average (f/cc) Range of Individual 8 Hr Samples (f/cc)	31 less than 0.01 less than 0.01	0
Metals		
No. of Sampling Events Range of Individual Samples	12	. 0
Cadmium	0.002-0.005	
Chromium	0.003-0.006	terne
Copper	0.044-0.36	
Lead	0.010-0.057	***
Zinc	10	
Arsenic	Not Observed	***
Mercury	Not Observed	

Table WSA 2.7-1. Certified Reporting Limits for Biota Analysis Methods. Page 1 of 1.

USATHAMA thod Code	Matrix Type	Analyte	CRL
В-Є	Animals and Plants	Arsenic	0.250
C-6	Animals and Plants	Mercury	0.050
D-6	Plants	Aldrin	0.022
		Dieldrin	0.044
		Endrin	0.040
E-6A	Animals	Aldrin	0.020
		Dieldrin	0.031
		Endrin	0.040
F-6A	Animals	DDE	0.094
		DDT	0.29

Source: ESE, 1989.

Table WSA 2.7-2 Contaminant Lavels in Terrestrial Ecosystems - Samples of Species Ranging Across the Western Study Ares. Page 1 of 2.

Species	1.	•	į	Conteminant					
		Location	Argenic (n/nt)	Mercury (n/nt)	Aldrin Dir (n/nt)	Dieldrin	Mercury Aldrin Dieldrin E.drin E.drin (n/nt) (n/nt)	e/mean*)	
VEHTEBUATES							(n/nc)		(a/at)
Ming-necked Pheasant	Juvenile	¥	Lf 0.25-1.8 (3/11)	BGRL (11)	BCKL (12) LT 0.03-1.3 (5/12)	03-1.3 (5/12)	Very lask		
	Adult	KH/A	BCKL (4)	BCKL (4)	BCKL (4) LT 0.03-2.9 (3/4)	33-2.9 (3/4)	PCHI (F)	BCM. (11)	BCRL (11)
	Juvenile Carcass	Offpost Control	LT 0.25-1.4 (2/11)	BCRL (11)	0.77 BCRL (14) LT 0.031-19 (1/14)	0.77		БСИГ (3)	BCRL (3)
	Adult Carcass	Offpost Control	. BCRL (2)	BCRL (2)	BCRL (3)	BCRL (3)	BCB1 (3)	LT 0.0%-1.3 (1/12)	BCRL (12)
	18 18 18 18 18 18 18 18 18 18 18 18 18 1	PetA	BCRL (10)	BC4L (11)	BCRL (11) LT 0.0	31-5.4 (9/11)	BCRL (11) LT 0.031-5.4 (9/11) 13 0 40-0 11 4 44444		BCRL (2)
	Muscless INA		LT 0.25-4.1 (2/20)	BCRL (20)		1.1	2. 0:40-0:14 (1/11)	BCRL (10)	BCRL (10)
		Offpost Control	BCRL (2)	BCRL (8)	BCRL (20) LT 0.016-0.063 (2/20) BCRL (2) BCRL (2)	016-0.063 (2/20) BCRL (2)	BCRL (20) BCRL (2)	BCRL (20)	BCRL (20)
	Liver**	RHA	МАД	ияо	BCRL (6) LT 0.018-2.3 (4/6)		BCRL-0.091 (1/6)	BCRL (2)	BCRL (2)
		Offpost Control	NKC	MKQ	0. BCKL (2) BC		BCPL (2)	BCML-0.44 (1/6)	BCRL
-	30 30	Uffpost Control	BCKL (10)	BCKL (11)	BCRL (11) BC	BCEL (11)	BCKL (11)	BCML (10)	BCRL (10)

Mean is calculated when 50 percent or more of samples have detectable contaminant levels. If less than 50 percent of samples have detectable contaminant levels, only the range of values are presented. When calculating the mean, values of 1/2 the detection limit,

BCRL LIT MMQ

Mot Requested Number of samples analyzed that contain detectable contaminant levels, nt " number of samples

Table WSA 2.7-2 Contaminant Levels in Terrestrial Ecosystems - Samples of Species Ranging Across the Western Study Area. Page 2 of 2.

Juvenile Docation Arzenic Hercury Aldrin Dieldrin Endrin (n/nt) (n		ï	:	·	Contaminant Level	in parts per	million (mg/kg ust us	faht hasial (e		
Juvenile Garcass RNA MRQ BCRL (10) LT 0.031-1.0 (6/10) BCRL (10) Juvenile Garcass Control MRQ BCRL (8) BCRL (8) BCRL (8) BCRL (8) Egg WA RMQ LT 0.05-0.41(8/34) BCRL (33) LF 0.031-3.6 (17/33) BCRL (33) Egg WA RMQ LT 0.05-0.41(8/34) BCRL (11) BCRL (11) BCRL (11) Liver Offpost Control BCRL (14) BCRL (14) LT 0.03-0.19(1/14) BCRL (14) Muscle RMA BCRL (14) BCRL (14) BCRL (14) BCRL (14) BCRL (14) Muscle Offpost Control BCRL (14) BCRL (14) BCRL (14) BCRL (14)	Specie	908611	Location	Arsenic (n/nt)	Hercury (n/nt)	Aldrin (n/nt)	Dieldrin (n/nt)	Endrin (n/nt)	(n/nt)	100T (a/nt)
Legs MAA MRQ DCRL (8) BCRL (8) BCRL (8) BCRL (8) BCRL (8) BCRL (17)33 LT 0.094-0.73 (1/5) Egs WAA MAA MAQ LT 0.05-0.41(8/34) BCRL (13) LT 0.031-3.6 (17/33) BCRL (13) LT 0.094-1.3 (1/29) Liver Control MAA BCRL (14) BCRL (14) BCRL (11) BCRL (11) BCRL (14) LT 0.094-1.0 (2/11) Muscle RMA BCRL (14) BCRL (14)<	American Kestrel	Juwenile	EDA.	MRQ	BCRL (10)	BCRL (10) L	T 0.031-1.0 (6/10)	BCRL (10)	LT 0.094-0.22 (1/10)	BCRL (10)
Egg MMA AHQ LT 0.05-0.41(8/34) DCRL (33) LT 0.031-3.6 (17/33) BCRL (33) LT 0.094-1.3 (1/29) Egg Offpost Control MMA LT 0.05-0.057(1/11) DCRL (11) DCRL (11) BCRL (11) BCRL (11) Liver Offpost Control BCRL (14) BCRL (14) LT 0.03-0.19(1/14) BCRL (14) HRQ Muscle RNA BCRL (14) BCRL (12) BCRL (14) BCRL (14) BCRL (14) BCRL (14) Muscle Control BCRL (14) BCRL (14) BCRL (14) BCRL (14) BCRL (14)		Juvenile	Offpost Control	MRQ	BCRL (8)	BCKL (8)	BGRL (8)	BCRL (8)	LT 0.094-0.73 (1/6)	BORT (8)
Liver Offpost Control MA LT 0.05-0.057(1/11) BCRL (11) BCRL (11) BCRL (11) BCRL (12) BCRL (14) LT 0.03-0.19(1/14) BCRL (14) MRQ Liver Offpost Control BCRL (14) BCRL (12) BCRL (14)		2 2 2	KOKA	HALQ	LT 0.05-0.41(8/34)	BCRL (33) LI	r 0.031-3.6 (17/33) Gr 0.51	BCML (33)	i.t 0.094-1.3 (1/29)	BCKL (29)
Liver MHA BCRL (14) BCRL (14) LT 0.03-0.19(1/14) BCRL (14) MRQ Liver Offpost SCRL (2) BCRL (2) BCRL (2) BCRL (2) BCRL (14) MRQ Muscle RMA BCRL (14) BCRL (14) BCRL (14) BCRL (14) MRQ Muscle Offpost BCRL (2) BCRL (2) BCRL (2) BCRL (2) MRQ		11 7	Offpost Control	ስ _አ አ	LT 0.05-0.057(1/11)		BCKL (11)	BCRL (11)	LT 0.094-1.0 (2/11)	BCRL (11)
Offpost Control BCRL (2) BCRL (2) BCRL (2) BCRL (2) BCRL (2) BCRL (1) BCRL (14) BCRL (14) BCRL (14) BCRL (14) RRQ Offpost BCRL (2) BCRL (2) BCRL (2) BCRL (2) BCRL (2) RRQ	Mule Deer	Liver	KHA	BCRL (14)	BCKL (14)	BCRL (14) LT	(+1/1)61*0-10-0	BCRL (14)	į	3
RMA BCRL (14) BCRL (14) BCRL (14) BCRL (14) MRQ Offpost BCRL (2) BCRL (2) BCRL (2) BCRL (2) WRQ		Liver	Offpost Control		BCRL (2)	BCRL (2)	BCRL (2)	BCRL (2)		
Offpost BCRL (2) BCRL (2) BCRL (2) BCRL (2) BCRL (2) BCRL (2)		Muscle	RNA	BCRL (14)	BCRL (14)	BCRL (14)	BCRL (14)	BCRL (1A)	S	j
		Muscle	Offpost Control	BCRL (2)	• BCRL (2)	BCRL (2)	BCRL (2)	BCRL (2)	D D D D D D D D D D D D D D D D D D D	

Mon is calculated when 50 percent or more of samples have detectable contaminant levels. If less than 50 percent of samples have detectable contaminant levels, only the range of values are presented. When calculating the mean, values of 1/2 the detection limit are substituted for samples that are below detection limit.

Relow Certified Reporting Limit **ECKL**

55

Mumber of samples analyzed that contain detectable contaminant levels, nt " number of samples

Not Kequested • # # **#**

Table WSA 2.7-3 Contaminant Levels in Terrestrial Ecosystems - Samples of Chance and USFVS Supplemental Samples of Species Amging Across the Western Study

Species	Trasue	Trasue Location	Arsenic (n/nt)		Level in parts Aldrin (n/nc)	per million (mg/kg in Dieldrin t) (n/nt)	Contaminant Level in parts per million (mg/kg wet weight basis) (Range/mean*) Hercury Aldrin Dieldrin Endrin (n/nt) (n/nt) (n/nt)	900 (***********************************	TOO
Hourning Dove Unrease MMA	e Carcass	KHA	BCRL (2)	BCRL (2)	LT 0.63-1.8	LT 0.63-1.8 5.6-56 (2/2)	LT 0.80-3.4 (1/2)	BCRL (2)	(u/nt) BCRL (2)
	Liver	RMA	BCRL (1)	BCRL (1)	BCRL (1)	7.4	3.7	(1)	;
Bald Eagle	Egg Berr Lake	rr Lake	BCRL	0.099	BCRL (1)	0.81 (1)	RCRT. (1)	BURL (I)	BCRL (1)
Golden Zagle Liver	Liver	YA.	MRQ .	LT 0.05-0.22 (1/2) BCRL (2) 0.12		LT 0.031-0.22 (1/2) 0.12	SCRL (2)	6.9 (1) BCRL (2)	BCRL (1) BCRL (2)
	Brain	RHA	BCRL (2)	LT 0.098-0.26 (2) BCRL (2)) BCRL (2)	BCRL (2)	#CB1 (2)		
Ferruginous Havk	Liver	SP4A	BCRL (5)	LT 0.05-0.29 (1/5) BCRL (5)) BCRL (5)	0.26-4.8 (5/5)	BCRL (5)	BCRL (2)	BCRL (2)
	Brain	RHA	BCRL (5)	LT 0.05-0.15 (1/5) BCRL (5)) BCRL (5)	LT 0.24-10 (4/5) 5.1	BCRL (5)	BCRL (5)	BCRL (5)
Med-tailed Hawk	Liver	Y-CR	BCRL (3)	LT 6.05-0.35 (1/3) BCML (3)) BCKL (3)	0.52-6.6 (3/3)	BCRL (3)	LT 0.31-0.76 (2/3)	BCRL (3)
	Brain	EMA	BCKL (3)	LT 0.05-0.093 (1/3) BCRL (3)		LT 0.75-9.4 (1/3)	8CKL (3)	BCRL (3)	BCKL (3)
Great-horned Liver	Liver	KHA	BCRL (4)	LT U.U5-U.U86 (2/4) BCML (4)	(4) BCHT (4)	0.14-28 (4/4) 12	BCRL (4)	LT 0.094-16 (3/4)	BCRL (4)
	Brain	BYA	BCKL (4)	BCRL (4)	BCRL (4) L	LT 0.18-16 (3/4) 8.80	BCEL (4)	1.7 LT 0.53-10 (3/4) 3.3	BCRL (4)

Hean is calculated when 50 percent or more of samples have detectable contaminant levels. If less than 50 percent of samples have detectable contaminant levels, only the range of values are presented. When calculating the mean, values of 1/2 the detection limit, are substituted for samples below detection limit.

Number of samples analyzed that contain detectable contaminant levels, nt " number of samples

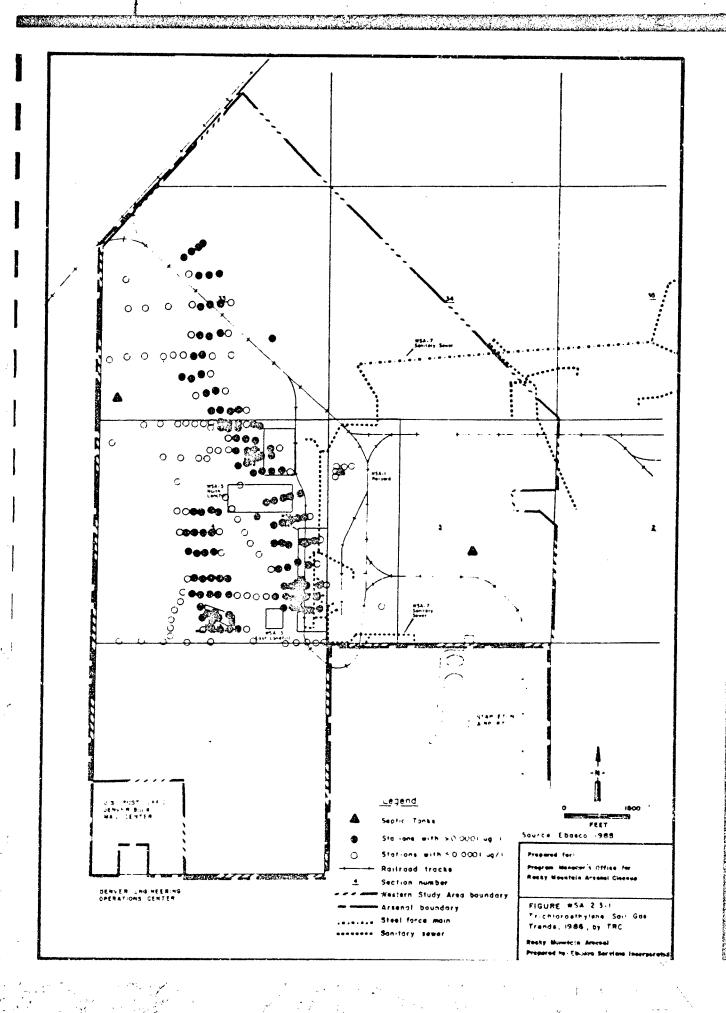
Table WSA 2.7-3 Contaninant Levels in Terrestrial Ecosystems - Samples of Chence and USFVE Supplements! Samples of Species Banging Acress the Wastern Study

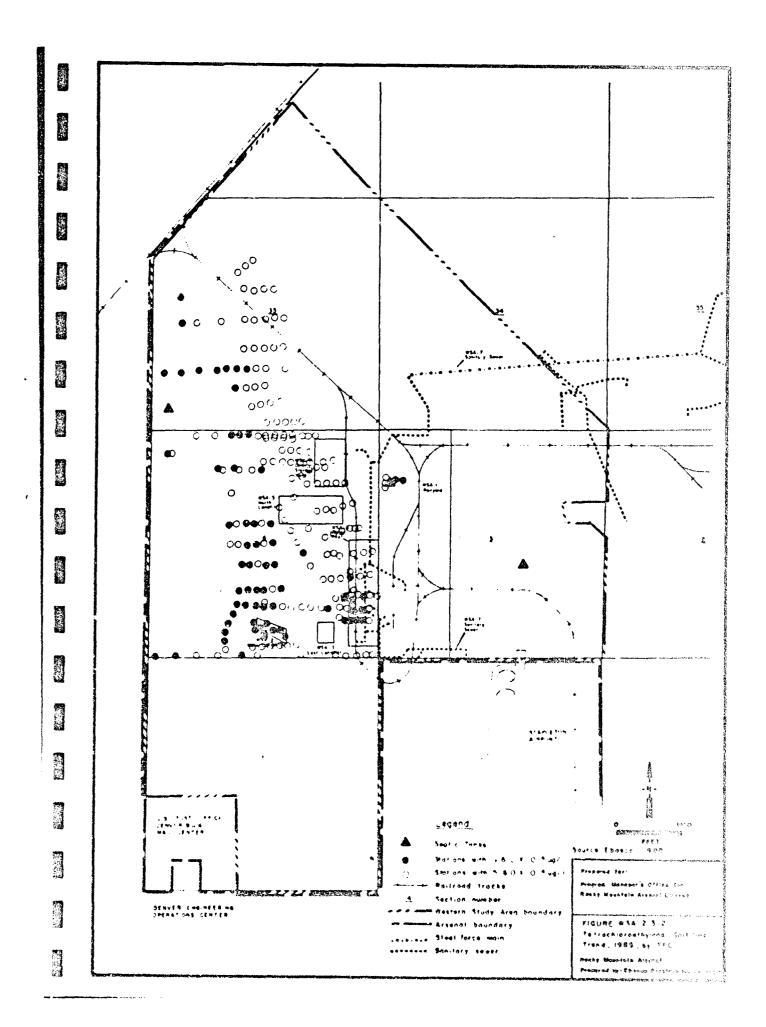
	Por	(n/nt)	MCST (2)	(1)	; !	
	man*)	(a/at)	PCRT (2)	BC1((1)	i	1 3
	Hercury Article (Beneglenand) (Action (Beneglenand) (Beneglenand) (Beneglenand)		(E) 18 24	(I) Pese	PCBT (1)	(1) Tebu
		1 40 / 3 1	0.30-0.40 (1)	1.0		B. B.
t Level in parts	A13614		BCRL (1)	BCRL (1)	PCRL (1)	(1) PCHT (1)
Contaminan	Mercury (n/nt)		BCRL (2)	BCRL (1)	BCKL (1)	7
	(n/nt)		BURL (2)	BCRL (1)	BCRL (1)	Net's
Location	Tissue Location Arsenic (n/nt)		X	RHA	KH	THE STATE OF THE S
Tissue			2 2 2	Liver	Liver	Kidneys AMA
Species			Morrier	Coyote	Badger	

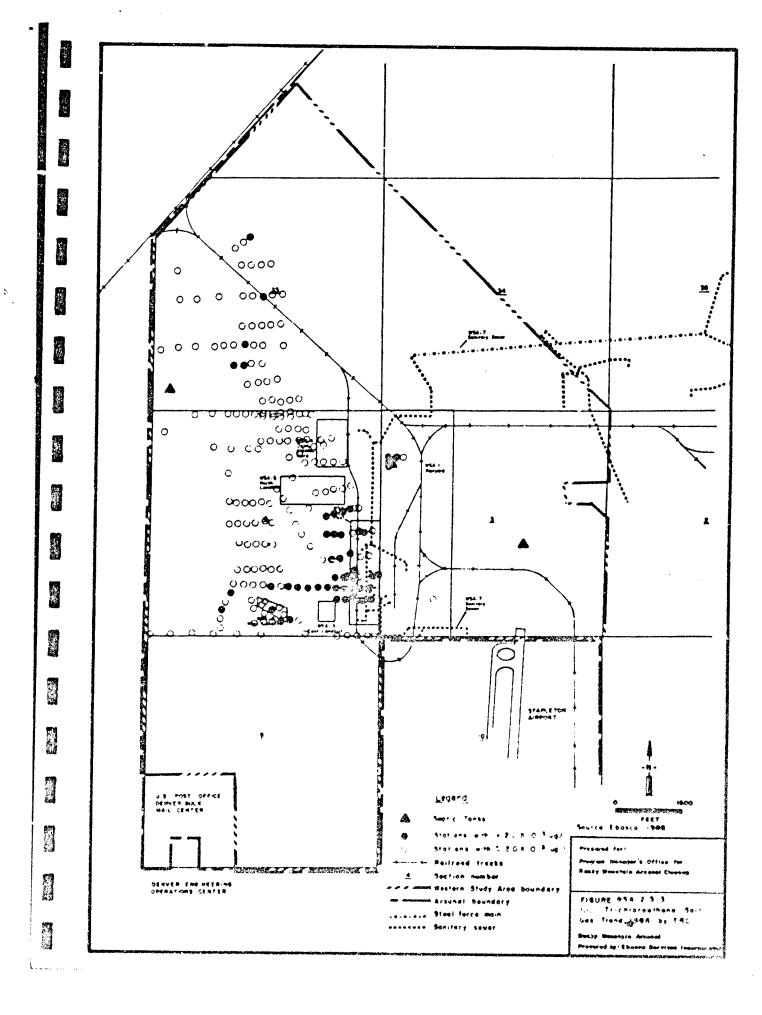
Mean is calculated when 50 percent or more of semples have detectable sonteminant lovels. If less than 50 percent of samples have detectable contaminant levels, only the range of values are presented. When calculating the mean, values of 1/2 the detection limit, are substituted for samples.

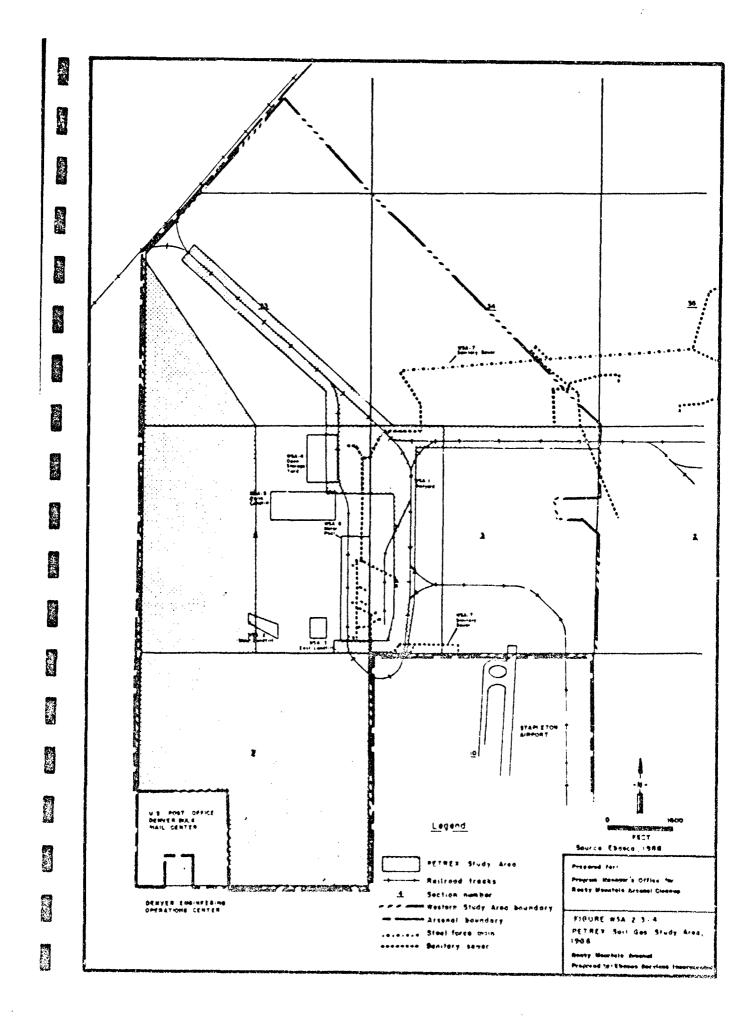
Less Than BORL

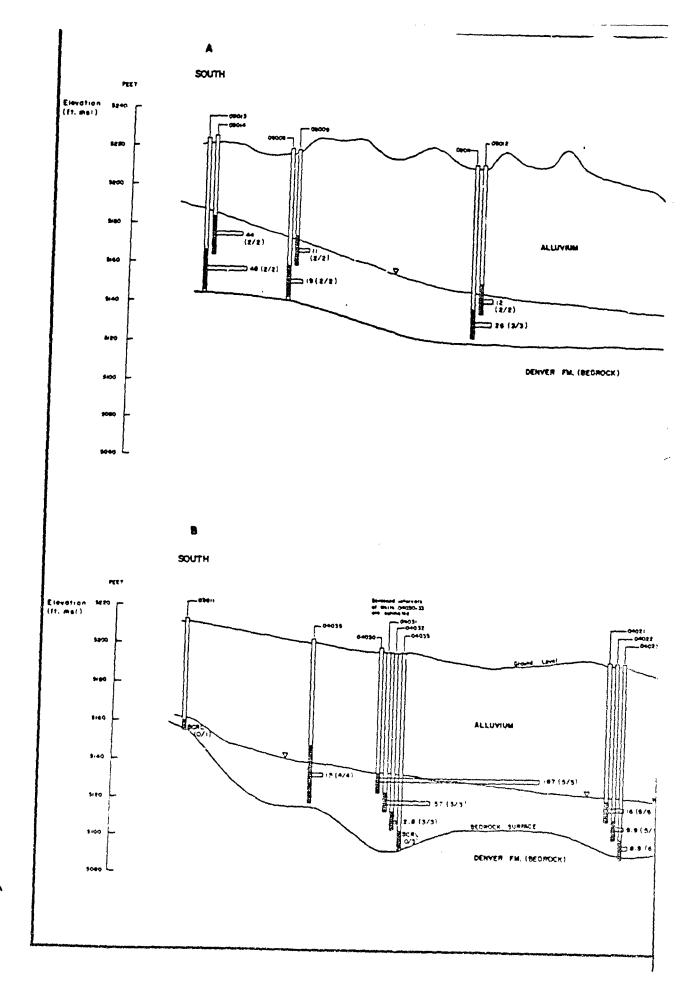
Monber of aemples analyzed that contain detectable conteminant levels, at a number of samples MAQ Not Requested) E











B

